

## **HYDRAULIC ANALYSIS NARRATIVE**

**FIRST & MAIN  
BLACKSBURG, VIRGINIA**

**May 4, 2007**

This Narrative is to be used in conjunction with the Plans entitled "First & Main – Phase I Blacksburg" and "First & Main – Phase II Blacksburg" dated May 4, 2007, by Anderson & Associates, Inc.



Prepared by: JKD/BM  
QA/QC by: TFB

**Anderson & Associates, Inc.  
Professional Design Services  
Blacksburg, Virginia  
JN 22559.50**



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**Anderson & Associates, Inc.  
Professional Design Services  
Virginia - North Carolina - Tennessee  
JN 22559.80**



## A. PROJECT DESCRIPTION

The First & Main project will be served off of the Town of Blacksburg's Low Pressure Zone containing the Highland Park and Neil Street Tanks. The proposed site will connect two times to an existing 16" water line along Main Street and twice to an existing 8" water line along County Club Drive and behind the existing Kroger grocery store. Demand for the proposed site was calculated as 162,690 gpd average daily usage and 325,380 gpd maximum daily usage. A detailed summary of the estimated demands are included with this analysis. The maximum daily demand used in this analysis is based on information from the Town of Blacksburg and is equal to 7.73 MGD for the low pressure zone only.

The hydraulic model was prepared using data supplied by the town and only includes the Town of Blacksburg's low pressure zone. An AutoCAD drawing of the system was prepared using the WaterGEMS interface and is included in this report. A summary of the completed runs are presented below while detailed printouts of each model run follow this narrative.

**Run #1** – Steady state analysis of maximum daily conditions for the proposed Town of Blacksburg water system plus maximum available fire flow calculated for the proposed First & Main project. Initial conditions are as follow: Proposed First and Main project – Constructed, Highland Park Tank #1 – Normal Low (38' Above Base), Highland Park Tank #2 – Normal Low (21' Above Base), Neil Street Tank – Normal Low (23' Above Base), & Triangle Pump Station – Off.

**Purpose** – To report the available fire flow at the proposed site under these initial conditions while maintaining 20 psi for all users in the system.

**Result** – The minimum available fire flow at a fire hydrant on the proposed site is 2408 gpm while maintaining 20 psi for all users in the system. The minimum available fire flow at a fire sprinkler connection is 1153 gpm while maintaining a residual pressure of 55 psi as well as maintaining 20 psi for all users in the system.

**Run #2** – Extended period analysis of maximum daily conditions for the proposed Town of Blacksburg water system plus 1000 gpm fire hydrant demand at MJ-11 and 1000 gpm fire sprinkler demand at MJ-9 for a duration of 2 hours. Both nodes are located on the Proposed First & Main project site. Initial conditions are as follow: Proposed First & Main project – Constructed, Highland Park Tank #1 – Normal Low (38' Above Base), Highland Park Tank #2 – Normal Low (21' Above Base), Neil Street Tank – Normal Low (23' Above Base), & Triangle Pump Station – Pumps #2 & #3 On.

**Purpose** – To identify if the proposed system is capable of supporting a 2-hour 1000 gpm fire hydrant demand and 1000 gpm fire sprinkler demand at the proposed site while maintaining 20 psi for all users in the system.

**Result** – During the duration of the fire flow event 20 psi is maintained throughout the system.



**APPENDIX A**  
**Estimated Water Demands**



First Main Project  
Estimated Water Demands  
JN 22559.50  
May 4, 2007

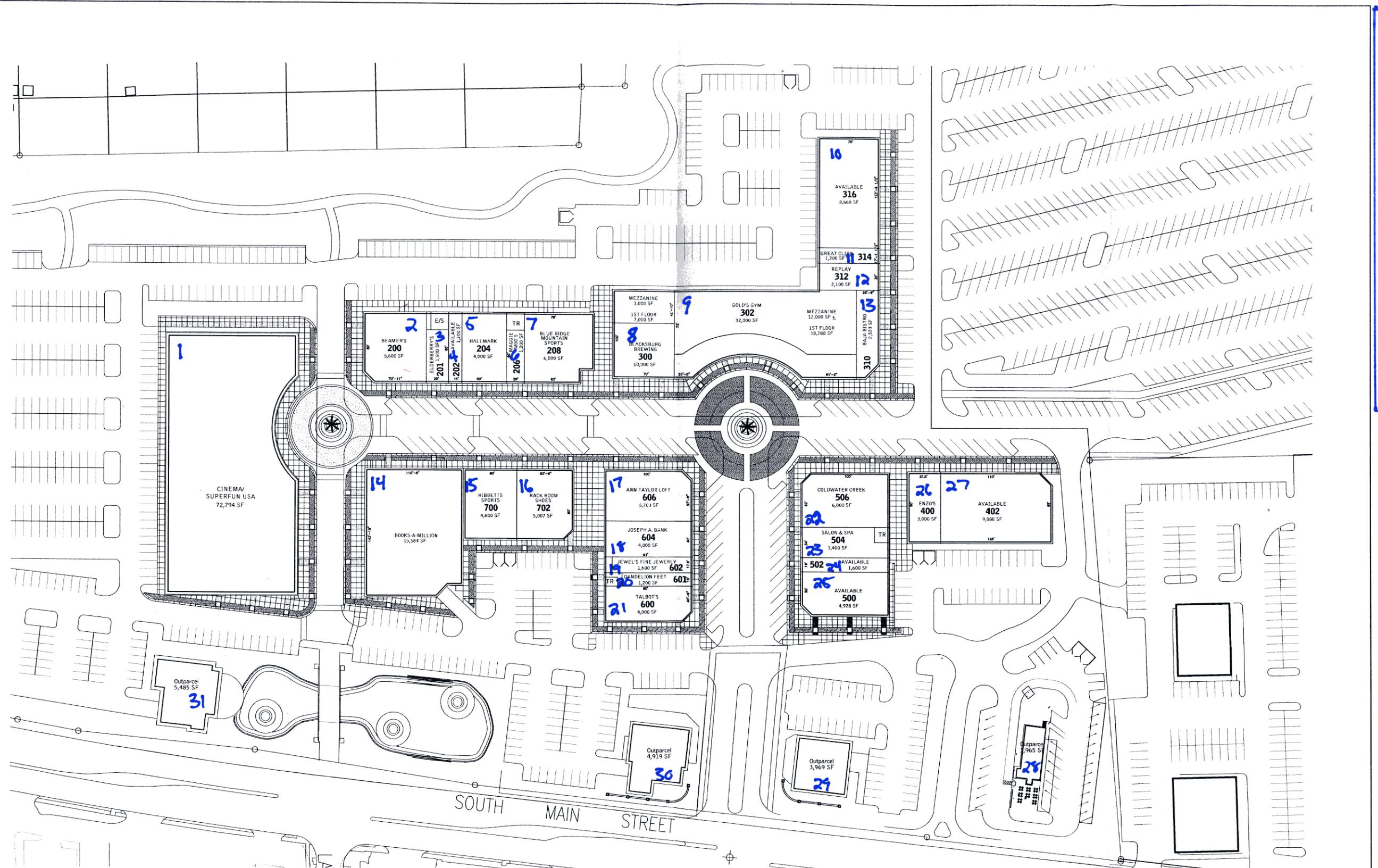
Unit #	Unit Tenant	Unit Use	Unit Size (SF)	# of Restaurant Seats	Unit	Daily Demand per unit (gpd)	VDH Method		Town Method	
							Town Classification	Avg. Water Usage (gpd/sf)	Flow Projection	
1	Cinema Superfun USA	Cinema Restaurant	36,487.00	160	SF sqf	0.25	9122 8000	0.0107 0.151	390 604	
	Superfun USA	Entertainment Restaurant	4,000.00		SF	0.25	8122	0.0107	348	
2	Beamers	Restaurant	32,487.00	224	seat	50.00	11200	0.151	846	
3	Elderberry's	Restaurant	5,600.00	60	seat	50.00	3000	0.151	227	
4	Available	Retail	1,500.00		SF	0.25	300	0.033	40	
5	Hallmark	Retail	1,200.00		SF	0.25	1000	0.033	132	
6	Maggie Moo's	Retail	4,000.00	48	seat	50.00	2400	0.151	181	
7	Blue Ridge Mt. Sports	Retail	1,200.00		SF	0.25	1500	0.033	198	
8	Brewery	Retail	6,000.00		seat	50.00	20000	0.151	1510	
9	Gold's Gym	Retail	10,000.00	400	SF	0.40	12800	N/A	5040	
10	Available	Gym	32,000.00		SF	0.25	2167	0.033	286	
11	Great Clips	Retail	8,668.00		SF	0.25	1200	0.0107	13	
12	Replay	Salon	1,200.00		SF	1.00	525	0.033	69	
13	Baja Bistro	Retail	2,100.00		seat	50.00	5046	0.151	381	
14	Books-a-Million	Restaurant	2,523.00	101	SF	0.25	3896	0.033	514	
15	Hibberts Sports	Retail	15,584.00		SF	0.25	1200	0.033	158	
16	Rack Room Shoes	Retail	4,800.00		SF	0.25	1252	0.033	165	
17	Ann Taylor Loft	Retail	5,007.00		SF	0.25	1426	0.033	188	
18	Joseph A. Bank	Retail	5,703.00		SF	0.25	1000	0.033	132	
19	Jewell's	Retail	4,000.00		SF	0.25	400	0.033	53	
20	Dandelion Feet	Retail	1,600.00		SF	0.25	300	0.033	40	
21	Talbot's	Retail	1,200.00		SF	0.25	1000	0.033	132	
22	Cold Water Creek	Retail	4,000.00		SF	0.25	1500	0.033	198	
23	Salon & Spa	Retail	6,000.00		SF	1.00	3400	0.107	36	
24	Available	Salon	3,400.00		SF	0.25	400	0.033	53	
25	Available	Retail	1,600.00		SF	0.25	1232	0.033	163	
26	Enzo's	Restaurant	4,928.00		seat	50.00	5500	0.151	453	
27	Available	Retail	3,000.00	110	SF	0.25	2472	0.033	326	
28	Outparcel	Restaurant	9,888.00		seat	50.00	7930	0.151	599	
29	Outparcel	Restaurant	3,965.00	159	seat	50.00	7968	0.151	602	
30	Outparcel	Restaurant	3,984.00	159	seat	50.00	9838	0.151	743	
31	Outparcel	Restaurant	4,919.00	197	seat	50.00	10970	0.151	828	
32	Pharmacy	Retail	5,485.00	219	SF	0.25	3225	0.033	426	
33	Retail Store	Retail (Domestic)	12,900.00		Provided by Tenant	0.25	5200	0.033	5822	
	Retail Store	Retail (Irrigation)	176,411.00		Provided by Tenant	0.25	6200	N/A		
							162690	21894		
							325380	43789		

**Notes:**

- Assume 1 seat per 25 square feet in restaurants.
- Town's flow rate classifications do not include a rate appropriate for Gold's Gym. Although University City Mall contains a similar facility, the rate (per square footage) is computed for the entire mall and does not reflect direct usage at the gym. The usage for the Gold's Gym is computed assuming 4 showers operating continuously for 14 hours, at 1.5 gpm per shower.



**APPENDIX B**  
**Preliminary Leasing Plan**



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## First & Main Blacksburg Preliminary Lease Plan

PRELIMINARY LEASE PLAN		LP-01
04/16/07	1"=40'	

**APPENDIX C**  
**Hydraulic Analysis, Run 1**



Run #1 – Steady state analysis of maximum daily conditions for the proposed Town of Blacksburg water system plus maximum available fire flow calculated for the proposed First & Main project.

Initial conditions are as follow:

Proposed First & Main project— Constructed

Highland Park Tank #1 – Normal Low (38' Above Base)

Highland Park Tank #2 – Normal Low (21' Above Base)

Neil Street Tank – Normal Low (23' Above Base)

Triangle Pump Station – Off

Purpose – To report the available fire flow at the proposed site under these initial conditions while maintaining 20 psi for all users in the system.

Result – The minimum available fire flow at a fire hydrant on the proposed site is 2408 gpm while maintaining 20 psi for all users in the system. The minimum available fire flow at a fire sprinkler connection is 1153 gpm while maintaining a residual pressure of 55 psi as well as maintaining 20 psi for all users in the system.

**TOWN OF BLACKSBURG WATER SYSTEM**  
**FIRST & MAIN PROJECT HYDRAULIC ANALYSIS**  
**MAY 4, 2007**

**Run 1 - Maximum Daily Demand plus maximum available fire flow calculated for  
Proposed First & Main Project  
All Tanks at Normal Low Level & Triangle PS Off.  
Steady State Analysis  
Junction Report - sorted by pressure**

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-10	2258.00	Base of Tank	0.00	2273.53	6.73
J-18	2256.00	Base of Tank	0.00	2273.53	7.60
J-1	2207.00	Merrimac	0.00	2225.01	7.81
J-2	2207.00	Merrimac	0.00	2225.01	7.81
J-1540	2253.00	Base of Tank	0.00	2272.19	8.32
J-551	2250.00	Base of Tank	0.00	2273.53	10.20
J-2080	2247.00	No Connections-Low System	0.00	2272.69	11.14
J-2070	2241.00	No Connections-Low System	0.00	2272.76	13.77
J-3	2239.00	Base of Tank	0.00	2274.54	15.41
J-2090	2236.00	Base of Tank	0.00	2273.37	16.20
J-550	2237.00	Base of Tank	0.00	2274.64	16.32
J-2660	2233.00	No Connections-Low System	0.77	2270.68	16.34
J-1520	2229.50	No Connections-Low System	0.38	2271.88	18.37
J-549	2229.50	No Connections-Low System	0.00	2272.07	18.46
J-2120	2222.00	Low System	0.00	2272.60	21.94
J-2680	2212.00	Low System	0.00	2266.26	23.52
J-5320	2215.00	Low System	1.73	2270.03	23.85
J-2060	2215.00	Low System	0.00	2271.04	24.29
J-1510	2214.00	Low System	0.58	2271.08	24.74
J-332	2210.00	Low System	0.00	2270.70	26.31
J-4160	2199.50	Low System	0.19	2262.84	27.46
J-413	2201.00	Low System	0.00	2264.56	27.56
J-5440	2202.00	Low System	1.15	2265.99	27.74
J-4170	2194.50	Low System	66.20	2262.88	29.64
J-327	2188.50	Low System	6.00	2257.66	29.98
J-2050	2200.00	Low System	17.43	2269.72	30.23
J-2670	2199.00	Low System	1.54	2269.12	30.40
J-4380	2186.00	Low System	1.61	2258.19	31.30
J-326	2183.90	Low System	0.00	2257.66	31.98
J-39	2187.00	Low System	2.00	2262.76	32.84
J-268	2180.00	Low System	0.00	2256.93	33.35
J-6940	2191.00	Low System	9.43	2268.40	33.55
J-270	2179.50	Low System	4.65	2256.93	33.57
J-7470	2187.00	Low System	0.00	2264.91	33.77
J-7460	2187.00	Low System	3.84	2264.92	33.78
J-7520	2186.00	Low System	8.46	2264.91	34.21
J-267	2178.00	Low System	0.00	2256.93	34.22
J-2030	2189.00	Low System	0.00	2268.41	34.42
J-5360	2185.00	Low System	2.88	2265.22	34.78
J-5330	2185.00	Low System	2.11	2265.23	34.78
J-2510	2183.00	Low System	0.00	2263.40	34.86
J-2520	2183.00	Low System	2.31	2263.40	34.86
J-2040	2188.00	Low System	0.00	2268.49	34.89
J-271	2176.00	Low System	0.00	2256.93	35.09
J-9630	2183.00	Low System	2.20	2263.94	35.09
J-6650	2182.50	Low System	1.15	2264.02	35.34
J-7480	2183.00	Low System	4.86	2264.87	35.49
J-9620	2181.50	Low System	9.59	2263.94	35.74
J-6640	2181.50	Low System	0.00	2264.01	35.77
J-43	2179.50	Low System	0.00	2262.77	36.10
J-6620	2180.50	Low System	1.15	2264.01	36.20
J-5460	2181.00	Low System	1.73	2264.56	36.22
J-5450	2181.00	Low System	0.56	2264.56	36.23
J-7530	2181.00	Low System	0.00	2264.91	36.38
J-5340	2181.00	Low System	2.11	2265.29	36.54
J-1500	2184.00	Low System	1.54	2269.49	37.06

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-4490	2169.50	Low System	1.42	2256.98	37.92
J-572	2175.00	Low System	0.00	2262.52	37.94
J-574	2175.00	Low System	0.00	2262.52	37.94
J-325	2170.00	Low System	0.00	2257.66	38.00
J-2010	2179.00	Low System	0.00	2266.97	38.14
J-9035	2169.00	Low System	2.83	2256.98	38.14
J-2020	2179.00	Low System	0.00	2267.11	38.20
J-6950	2180.00	Low System	8.88	2268.40	38.32
J-571	2174.00	Low System	4.17	2262.52	38.38
J-9810	2184.00	Low System	0.19	2272.55	38.39
J-2130	2184.00	Low System	0.38	2272.57	38.39
J-9545	2175.50	Low System	1.35	2264.22	38.46
J-7310	2174.00	Low System	0.00	2262.88	38.53
J-670	2168.00	Low System	0.00	2256.94	38.56
J-251	2168.00	Low System	0.00	2256.94	38.56
J-4610	2168.00	Low System	0.58	2256.95	38.56
J-7450	2177.00	Low System	0.00	2267.11	39.07
J-5430	2174.00	Low System	3.65	2265.10	39.50
J-2530	2172.00	Low System	1.40	2263.39	39.62
J-9570	2175.00	Low System	0.58	2266.41	39.63
J-2500	2177.00	Low System	0.19	2268.43	39.64
J-9030	2165.50	Low System	4.24	2256.97	39.66
J-2000	2175.00	Low System	0.00	2266.64	39.73
J-7300	2171.00	Low System	0.00	2262.88	39.83
J-273	2165.00	Low System	4.00	2256.88	39.83
J-16	2170.00	Low System	0.00	2261.92	39.85
J-4640	2165.00	Low System	0.97	2256.95	39.86
J-14	2140.00	Merrimac	0.00	2231.98	39.88
J-414	2172.00	Low System	0.00	2264.41	40.06
J-589	2164.50	Low System	4.65	2256.94	40.07
J-591	2164.00	Low System	0.00	2256.93	40.29
J-590	2164.00	Low System	4.65	2256.93	40.29
J-194	2164.00	Low System	0.00	2256.95	40.29
J-605	2164.00	Low System	0.00	2257.11	40.37
J-5470	2171.00	Low System	2.11	2264.49	40.53
J-2460	2175.00	Low System	0.00	2268.76	40.65
J-2490	2174.50	Low System	2.11	2268.43	40.72
J-1080	2163.00	Low System	2.11	2256.95	40.73
J-443	2169.80	Low System	0.00	2264.07	40.87
J-2540	2169.00	Low System	0.96	2263.38	40.92
J-1060	2162.50	Low System	2.79	2256.98	40.96
J-9770	2178.00	Low System	2.50	2272.49	40.96
J-629	2168.00	Low System	2.08	2262.72	41.06
J12	2137.20	Merrimac	0.00	2231.98	41.09
J10	2137.20	Merrimac	0.00	2231.98	41.09
J14	2137.20	Merrimac	0.00	2231.98	41.09
J-274	2162.00	Low System	4.00	2256.89	41.13
J-4920	2173.50	Low System	0.96	2268.76	41.30
J-6510	2168.50	Low System	14.80	2264.07	41.43
J-7420	2171.50	Low System	3.63	2267.16	41.47
J-1490	2173.00	Low System	0.58	2268.79	41.53
J-2690	2169.00	Low System	1.73	2264.84	41.55
J-9045	2161.00	Low System	0.00	2256.93	41.59
J-442	2168.00	Low System	0.00	2264.07	41.65
J-7440	2171.00	Low System	0.00	2267.16	41.69
J-1990	2170.00	Low System	1.73	2266.41	41.79
J-7650	2167.00	Low System	22.76	2263.45	41.81
J-276	2160.40	Low System	4.00	2256.88	41.83
J-7550	2168.00	Low System	1.35	2264.68	41.91
J-38	2166.00	Low System	1.00	2262.74	41.94
J-4990	2172.00	Low System	1.15	2268.77	41.95
J-1480	2171.50	Low System	0.19	2268.31	41.97
J-275	2160.00	Low System	4.00	2256.88	42.00
J-269	2160.00	Low System	4.00	2256.91	42.01
J-671	2160.00	Low System	5.00	2256.94	42.03
J-4090	2166.00	Low System	0.00	2263.47	42.25
J-5420	2167.50	Low System	2.35	2265.10	42.31

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-7580	2166.00	Low System	1.35	2263.88	42.43
J-9065	2159.00	Low System	1.54	2256.95	42.47
J-9885	2165.00	Low System	0.00	2263.45	42.68
J-11105	2165.50	Low System	2.88	2263.96	42.69
J-4540	2158.00	Low System	0.00	2256.93	42.89
J-5410	2166.00	Low System	0.99	2264.98	42.91
J-142	2166.00	Low System	0.00	2265.12	42.97
J-4050	2166.00	Low System	38.66	2265.19	43.00
J-201	2163.00	Low System	0.00	2262.54	43.15
J-203	2162.00	Low System	3.70	2262.54	43.58
J-3315	2162.00	Low System	0.00	2262.76	43.68
J-254	2156.00	Low System	2.00	2256.91	43.75
J-4510	2156.00	Low System	4.68	2256.93	43.75
J-48	2162.20	Low System	2.00	2263.15	43.76
J-4620	2156.00	Low System	1.35	2256.95	43.77
J-189	2156.00	Low System	0.00	2257.00	43.79
J-9025	2155.50	Low System	0.32	2256.95	43.98
J-603	2155.50	Low System	0.00	2256.95	43.98
J-324	2156.00	Low System	0.00	2257.66	44.07
J-7540	2163.00	Low System	4.86	2264.71	44.09
J-7570	2163.00	Low System	0.00	2264.71	44.09
J-11050	2160.00	Low System	2.88	2261.72	44.10
J-180	2155.00	Low System	0.00	2257.01	44.22
J-3590	2155.00	Low System	0.00	2257.09	44.26
J-209	2155.00	Low System	0.00	2257.10	44.26
J-253	2154.00	Low System	20.00	2256.91	44.61
J-1600	2163.00	Low System	5.58	2265.94	44.63
J-428	2154.00	Low System	0.00	2256.95	44.63
J-186	2154.00	Low System	0.00	2257.01	44.65
J-5390	2162.00	Low System	1.88	2265.10	44.70
J-604	2154.00	Low System	0.00	2257.11	44.70
J-1610	2162.00	Low System	1.92	2265.42	44.84
J-7220	2169.00	Low System	0.00	2272.48	44.86
J-200	2159.00	Low System	0.00	2262.54	44.89
J-2480	2165.00	Low System	1.35	2268.67	44.94
J-2155	2168.80	Low System	0.00	2272.53	44.97
J-350	2128.00	Merrimac	0.00	2231.97	45.07
J-11060	2161.00	Low System	0.90	2265.10	45.13
J-606	2153.00	Low System	0.00	2257.11	45.13
J-6970	2164.00	Low System	0.00	2268.40	45.26
J-7660	2159.00	Low System	9.43	2263.42	45.27
J-565	2168.00	Low System	0.00	2272.44	45.28
J-563	2168.00	Low System	0.00	2272.44	45.28
J-438	2152.00	Low System	25.81	2256.95	45.50
J-155	2160.00	Low System	11.00	2265.00	45.52
J-5300	2163.00	Low System	1.77	2268.00	45.52
J-170	2160.00	Low System	20.00	2265.08	45.56
J-175	2160.00	Low System	20.00	2265.09	45.56
J-47	2158.00	Low System	2.00	2263.11	45.57
J-5730	2158.00	Low System	1.15	2263.28	45.64
J-11055	2158.00	Low System	0.00	2263.28	45.64
J-6980	2163.00	Low System	0.00	2268.40	45.69
J-6960	2163.00	Low System	6.11	2268.40	45.69
J-4040	2161.00	Low System	0.32	2266.74	45.84
J-152	2159.00	Low System	0.00	2265.00	45.95
J-373	2150.90	Low System	20.40	2256.90	45.95
J-9000	2151.00	Low System	3.51	2257.04	45.97
J-1040	2151.00	Low System	27.39	2257.04	45.97
J-335	2156.50	Low System	4.17	2262.72	46.05
J-263	2150.50	Low System	3.00	2256.91	46.13
J-5750	2156.50	Low System	1.73	2263.18	46.25
J-5700	2156.50	Low System	0.58	2263.28	46.29
J-7320	2156.00	Low System	0.00	2262.88	46.33
J-370	2150.00	Low System	0.00	2256.92	46.35
J-252	2150.00	Low System	20.00	2256.94	46.36
J-4630	2150.00	Low System	0.00	2256.95	46.37
J-154	2158.00	Low System	0.00	2265.00	46.38

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-4320	2150.00	Low System	6.92	2257.04	46.40
J-4310	2150.00	Low System	0.37	2257.04	46.40
J-440	2157.00	Low System	0.00	2264.07	46.42
J-371	2149.80	Low System	0.00	2256.91	46.44
J-557	2165.00	Low System	6.90	2272.44	46.58
J-262	2149.40	Low System	3.00	2256.91	46.61
J-2150	2165.00	Low System	0.00	2272.53	46.62
J-1030	2149.50	Low System	36.61	2257.03	46.62
J-199	2155.00	Low System	0.00	2262.54	46.62
J-372	2149.30	Low System	0.00	2256.92	46.65
J-4980	2161.00	Low System	1.35	2268.76	46.71
J-9625	2156.00	Low System	0.38	2263.94	46.79
J-166	2157.00	Low System	11.00	2265.08	46.85
J-5250	2155.00	Low System	1.15	2263.25	46.93
J-5290	2159.00	Low System	0.38	2267.28	46.94
J-2710	2155.50	Low System	2.00	2263.95	47.02
J-1590	2158.00	Low System	0.00	2266.63	47.09
J-1580	2158.00	Low System	0.00	2266.63	47.09
J-628	2154.00	Low System	2.08	2262.72	47.13
J-37	2154.00	Low System	1.00	2262.73	47.13
J-7430	2158.00	Low System	3.38	2266.74	47.14
J-5490	2156.00	Low System	0.00	2264.77	47.15
J-5690	2154.50	Low System	1.35	2263.29	47.16
J-7490	2156.00	Low System	3.07	2264.87	47.20
J-9865	2156.00	Low System	0.00	2264.87	47.20
J-593	2148.00	Low System	4.65	2256.93	47.22
J-9635	2155.00	Low System	0.00	2263.94	47.23
J-255	2148.00	Low System	10.00	2256.95	47.23
J-1020	2148.00	Low System	27.58	2257.03	47.27
J-1460	2158.00	Low System	0.00	2267.06	47.28
J-171	2156.00	Low System	20.00	2265.10	47.30
J-5175	2154.00	Low System	0.00	2263.18	47.33
J-7740	2153.50	Low System	5.17	2262.76	47.37
J-261	2147.60	Low System	3.00	2256.91	47.39
J-6910	2157.00	Low System	1.36	2266.42	47.44
J-7210	2163.00	Low System	1.73	2272.48	47.46
J-4200	2163.00	Low System	0.58	2272.54	47.49
J-198	2153.00	Low System	3.70	2262.55	47.49
J-2140	2163.00	Low System	0.00	2272.55	47.49
J-9860	2155.00	Low System	0.00	2264.87	47.63
J-156	2155.00	Low System	11.00	2265.00	47.69
J-167	2155.00	Low System	0.00	2265.08	47.72
J-6930	2156.00	Low System	3.10	2266.40	47.86
J-197	2152.00	Low System	0.00	2262.55	47.93
J-9360	2153.00	Low System	0.00	2263.88	48.07
J-9040	2146.00	Low System	0.00	2256.94	48.09
J-597	2146.00	Low System	0.00	2256.94	48.09
J-427	2146.00	Low System	0.00	2256.94	48.10
J-6610	2152.50	Low System	1.92	2263.95	48.32
J-5680	2152.00	Low System	0.96	2263.47	48.32
J-573	2151.00	Low System	4.17	2262.52	48.35
J-7750	2151.00	Low System	0.00	2262.71	48.43
J-626	2151.00	Low System	2.08	2262.72	48.43
J-265	2145.00	Low System	3.00	2256.91	48.52
J-266	2145.00	Low System	3.00	2256.91	48.52
J-260	2145.00	Low System	3.00	2256.91	48.52
J-650	2152.00	Low System	2.08	2263.91	48.52
J-1070	2145.00	Low System	0.77	2256.96	48.54
J-145	2153.00	Low System	11.00	2265.07	48.58
J-169	2153.00	Low System	0.00	2265.08	48.59
J-5710	2151.00	Low System	1.54	2263.26	48.67
J-5720	2151.00	Low System	0.00	2263.28	48.67
J-6920	2154.00	Low System	3.10	2266.37	48.71
J-508	2144.50	Low System	0.00	2256.95	48.75
J-507	2144.50	Low System	0.00	2256.95	48.75
J-509	2144.50	Low System	0.00	2256.98	48.76
J-5670	2151.00	Low System	1.54	2263.49	48.77

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-4560	2144.00	Low System	0.00	2256.94	48.96
J-5190	2151.00	Low System	3.29	2264.08	49.02
J-49	2150.00	Low System	0.00	2263.16	49.06
J-5620	2148.50	Low System	3.27	2261.79	49.11
J-7590	2150.00	Low System	1.73	2263.83	49.35
J-9050	2143.00	Low System	0.00	2256.93	49.39
J-4060	2149.00	Low System	0.00	2263.00	49.42
J-1450	2153.00	Low System	0.00	2267.04	49.44
J-1470	2153.00	Low System	0.19	2267.29	49.55
J-5740	2149.00	Low System	1.54	2263.32	49.56
J-5200	2149.00	Low System	0.96	2263.41	49.60
J-177	2148.80	Low System	0.55	2263.24	49.61
J-264	2142.00	Low System	3.00	2256.91	49.82
J-5400	2150.00	Low System	1.15	2264.98	49.85
J-5260	2148.00	Low System	1.54	2262.99	49.85
J-1440	2152.00	Low System	0.00	2267.04	49.87
J-168	2150.00	Low System	0.00	2265.08	49.89
J-5180	2150.00	Low System	0.77	2265.15	49.92
J-179	2148.00	Low System	0.56	2263.23	49.96
J-196	2147.00	Low System	0.00	2262.55	50.09
J-4070	2147.50	Low System	0.00	2263.20	50.16
J-4080	2147.50	Low System	1.21	2263.23	50.17
J-9905	2147.00	Low System	5.65	2262.79	50.20
J-5170	2149.00	Low System	0.58	2264.91	50.25
J-7680	2147.50	Low System	13.23	2263.42	50.25
J-7670	2147.50	Low System	0.00	2263.42	50.25
J-7690	2147.50	Low System	0.00	2263.42	50.25
J-4550	2141.00	Low System	0.00	2256.94	50.26
J-9765	2156.50	Low System	1.54	2272.49	50.29
J-9145	2147.00	Low System	1.15	2263.09	50.33
J-5280	2149.50	Low System	0.00	2265.94	50.48
J-9910	2146.00	Low System	2.74	2262.79	50.63
J-258	2140.00	Low System	3.00	2256.92	50.69
J-295	2140.00	Low System	0.00	2256.92	50.69
J-4530	2140.00	Low System	1.35	2256.93	50.69
J-4650	2140.00	Low System	1.54	2256.95	50.70
J-5310	2151.00	Low System	0.00	2268.00	50.72
J-15	2140.00	Low System	0.00	2257.04	50.74
J-5480	2147.00	Low System	0.00	2264.41	50.90
J-233	2155.00	Low System	5.00	2272.47	50.93
J-4100	2146.00	Low System	3.63	2263.49	50.94
J-36	2145.00	Low System	0.00	2262.72	51.04
J-1430	2149.00	Low System	2.32	2266.88	51.10
J-257	2139.00	Low System	0.00	2256.92	51.12
J-7730	2145.00	Low System	13.24	2262.95	51.13
J-9935	2144.50	Low System	5.14	2262.53	51.17
J-2440	2139.50	Low System	0.23	2257.66	51.23
J-636	2148.00	Low System	0.00	2266.33	51.30
J-638	2145.50	Low System	7.64	2263.85	51.31
J-2750	2145.50	Low System	0.19	2263.85	51.31
J-296	2138.50	Low System	5.00	2256.92	51.34
J-6630	2145.50	Low System	1.15	2264.03	51.38
J-9140	2144.00	Low System	1.78	2262.55	51.40
J-4110	2145.00	Low System	0.38	2263.63	51.43
J-7620	2145.00	Low System	2.31	2263.63	51.43
J-297	2138.20	Low System	0.00	2256.92	51.47
J-42	2144.00	Low System	0.00	2262.72	51.47
J-5500	2143.00	Low System	1.54	2261.73	51.47
J-1620	2146.00	Low System	1.73	2264.94	51.56
J-599	2138.00	Low System	15.67	2256.94	51.56
J-6990	2153.50	Low System	3.84	2272.54	51.61
J-144	2146.00	Low System	0.00	2265.06	51.62
J-174	2146.00	Low System	20.00	2265.12	51.64
J-5240	2144.00	Low System	1.15	2263.16	51.66
J16	2137.20	Low System	0.00	2257.04	51.95
J20	2137.20	Low System	0.00	2257.04	51.95
J18	2137.20	Low System	0.00	2257.04	51.95

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-12000	2144.00	Low System	1.35	2263.89	51.98
J-9155	2141.50	Low System	1.54	2261.73	52.12
J-2740	2143.50	Low System	0.00	2263.85	52.17
J-2560	2143.00	Low System	0.00	2263.35	52.18
J-2550	2143.00	Low System	10.99	2263.35	52.18
J-140	2142.00	Low System	0.00	2262.70	52.32
J-505	2136.50	Low System	4.86	2257.22	52.33
J-5770	2142.50	Low System	2.11	2263.33	52.38
J-7500	2144.00	Low System	0.00	2264.87	52.40
J-298	2136.00	Low System	5.00	2256.92	52.42
J-4580	2136.00	Low System	0.38	2256.96	52.44
J-188	2136.00	Low System	0.00	2256.99	52.45
J-6250	2143.00	Low System	0.00	2264.14	52.52
J-9890	2142.00	Low System	0.00	2263.42	52.64
J-9930	2141.00	Low System	0.00	2262.47	52.66
J-4840	2142.00	Low System	0.77	2263.49	52.67
J-4770	2141.00	Low System	7.72	2262.54	52.69
J-9335	2141.50	Low System	2.88	2263.27	52.79
J-176	2141.40	Low System	0.00	2263.27	52.83
J-20020	2135.00	Low System	7.26	2256.93	52.86
J-592	2135.00	Low System	4.65	2256.93	52.86
J-9925	2140.00	Low System	12.05	2262.47	53.09
J-2160	2150.00	Low System	1.49	2272.53	53.12
J-113	2140.00	Low System	3.33	2262.65	53.17
J-2410	2135.00	Low System	3.22	2257.66	53.18
J-334	2140.00	Low System	0.00	2262.72	53.20
J-333	2140.00	Low System	0.00	2262.72	53.20
J-5230	2140.50	Low System	1.54	2263.35	53.26
J-598	2134.00	Low System	0.00	2256.95	53.30
J-645	2143.00	Low System	0.00	2265.98	53.31
J-7170	2149.50	Low System	0.00	2272.49	53.32
J-7160	2149.50	Low System	2.11	2272.49	53.32
J-159	2142.00	Low System	11.00	2265.00	53.32
J-4910	2145.00	Low System	5.88	2268.30	53.46
J-7120	2149.00	Low System	2.11	2272.49	53.54
J-126	2139.00	Low System	5.00	2262.67	53.61
J-141	2139.00	Low System	0.00	2262.69	53.62
J-116	2139.00	Low System	0.00	2262.69	53.62
J-9120	2139.00	Low System	14.52	2262.86	53.70
J-5660	2140.00	Low System	1.73	2263.88	53.70
J-4870	2143.00	Low System	3.27	2266.89	53.71
J-9805	2148.00	Low System	0.00	2272.47	53.96
J-4830	2139.00	Low System	2.68	2263.51	53.98
J-627	2138.00	Low System	2.08	2262.72	54.07
J-7510	2140.00	Low System	0.00	2264.87	54.13
J-9900	2138.00	Low System	50.94	2263.23	54.29
J-227	2139.00	Low System	2.00	2264.36	54.34
J-244	2139.00	Low System	2.00	2264.37	54.35
J-7100	2147.00	Low System	0.00	2272.49	54.40
J-461	2131.00	Low System	8.00	2256.80	54.54
J-453	2131.00	Low System	8.00	2256.80	54.54
J-454	2131.00	Low System	0.00	2256.80	54.54
J-462	2131.00	Low System	8.00	2256.80	54.54
J-463	2131.00	Low System	8.00	2256.81	54.54
J-504	2131.20	Low System	4.86	2257.22	54.63
J-9330	2137.00	Low System	2.88	2263.26	54.73
J-2730	2137.50	Low System	0.19	2263.87	54.78
J-114	2136.00	Low System	0.00	2262.68	54.92
J-460	2130.00	Low System	8.00	2256.80	54.97
J-465	2130.00	Low System	8.00	2256.82	54.98
J-9350	2136.50	Low System	2.69	2263.35	54.99
J-6480	2137.00	Low System	3.75	2263.87	55.00
J-165	2138.00	Low System	11.00	2265.04	55.08
J-2700	2137.00	Low System	2.73	2264.07	55.09
J-5210	2136.00	Low System	1.73	2263.38	55.22
J-9895	2136.00	Low System	6.13	2263.41	55.24
J-1010	2104.00	Merrimac	0.00	2231.87	55.43

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-7110	2144.50	Low System	1.54	2272.49	55.49
J-1000	2104.00	Merrimac	0.00	2232.05	55.51
J-6110	2136.00	Low System	0.58	2264.19	55.57
J-7640	2135.00	Low System	2.67	2263.26	55.60
J-7150	2144.00	Low System	3.65	2272.49	55.70
J-9760	2144.00	Low System	1.73	2272.49	55.70
J-4120	2135.00	Low System	1.35	2263.64	55.77
J-323	2129.00	Low System	2.00	2257.66	55.78
J-3280	2134.00	Low System	0.00	2262.68	55.79
J-221	2128.00	Low System	4.00	2256.84	55.85
J-2720	2135.00	Low System	0.38	2263.90	55.88
J-9055	2128.00	Low System	0.00	2256.93	55.89
J-4590	2128.00	Low System	1.73	2256.95	55.90
J-191	2128.00	Low System	0.00	2256.95	55.90
J-112	2133.50	Low System	0.00	2262.68	56.00
J-610	2134.00	Low System	0.69	2263.37	56.09
J-7090	2143.00	Low System	0.77	2272.49	56.14
J-5780	2133.50	Low System	4.04	2263.34	56.29
J-9585	2134.00	Low System	0.00	2263.85	56.29
J-4520	2127.00	Low System	0.00	2256.93	56.33
J-451	2126.50	Low System	0.00	2256.80	56.49
J-452	2126.50	Low System	8.00	2256.80	56.49
J-9340	2133.00	Low System	4.23	2263.30	56.49
J-9965	2132.00	Low System	1.40	2262.35	56.51
J-649	2142.00	Low System	5.00	2272.53	56.59
J-7610	2133.00	Low System	4.04	2263.64	56.64
J-3390	2132.00	Low System	1.92	2262.66	56.65
J-3260	2132.00	Low System	0.00	2262.67	56.65
J-3290	2132.00	Low System	0.00	2262.67	56.65
J-3270	2132.00	Low System	0.00	2262.67	56.65
J-6490	2133.00	Low System	2.31	2263.87	56.73
J-7190	2141.50	Low System	1.35	2272.52	56.80
J-7000	2141.50	Low System	3.65	2272.52	56.80
J-164	2134.00	Low System	11.00	2265.02	56.80
J-340	2126.00	Low System	0.00	2257.04	56.81
J-639	2132.50	Low System	7.64	2263.85	56.94
J-4210	2141.00	Low System	2.11	2272.52	57.01
J-4750	2131.00	Low System	0.00	2262.53	57.02
J-5650	2130.00	Low System	3.46	2261.54	57.03
J-2420	2126.00	Low System	0.00	2257.66	57.08
J-110	2131.00	Low System	3.33	2262.67	57.08
J-459	2125.00	Low System	8.00	2256.80	57.14
J-7770	2131.00	Low System	1.73	2262.94	57.20
J-3380	2131.00	Low System	16.34	2262.95	57.20
J-9920	2130.50	Low System	2.04	2262.47	57.21
J-161	2133.00	Low System	11.00	2265.01	57.23
J-6120	2132.00	Low System	0.00	2264.23	57.32
J-5220	2131.00	Low System	1.35	2263.36	57.38
J-609	2131.00	Low System	0.00	2263.37	57.39
J-4570	2124.50	Low System	0.00	2256.95	57.42
J-7180	2140.00	Low System	0.96	2272.52	57.45
J-111	2130.00	Low System	3.33	2262.65	57.50
J-3300	2130.00	Low System	14.54	2262.66	57.51
J-382	2130.00	Low System	7.64	2262.72	57.54
J-430	2139.00	Low System	7.00	2272.45	57.85
J-7060	2139.00	Low System	0.77	2272.49	57.87
J-163	2131.50	Low System	11.00	2265.01	57.88
J-9535	2130.00	Low System	2.51	2263.68	57.95
J-9130	2129.00	Low System	6.71	2262.70	57.96
J-9565	2131.50	Low System	2.44	2265.23	57.97
J-1420	2132.00	Low System	0.90	2265.75	57.98
J-6500	2130.00	Low System	3.75	2263.87	58.03
J-651	2130.00	Low System	2.08	2263.90	58.05
J-9115	2129.00	Low System	2.47	2262.93	58.06
J-129	2128.50	Low System	5.00	2262.64	58.15
J-6080	2130.00	Low System	0.00	2264.23	58.19
J-44	2130.00	Low System	1.00	2264.23	58.19

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-11110	2129.50	Low System	2.88	2263.95	58.29
J-4730	2128.00	Low System	7.72	2262.53	58.32
J-2430	2123.00	Low System	0.30	2257.66	58.38
J-115	2128.00	Low System	1.00	2262.68	58.39
J-9960	2127.50	Low System	9.06	2262.27	58.42
J-456	2122.00	Low System	0.00	2256.84	58.46
J-5760	2128.00	Low System	2.31	2263.36	58.68
J-2170	2137.00	Low System	0.00	2272.53	58.76
J-4820	2128.00	Low System	2.49	2263.58	58.78
J-635	2129.50	Low System	0.00	2265.23	58.84
J-464	2121.00	Low System	8.00	2256.83	58.88
J-7080	2136.50	Low System	0.77	2272.49	58.96
J-4900	2130.00	Low System	1.47	2266.15	59.02
J-7630	2127.00	Low System	4.44	2263.30	59.09
J-9355	2127.00	Low System	0.00	2263.33	59.10
J-7600	2127.50	Low System	0.58	2263.83	59.10
J-3360	2127.00	Low System	2.07	2263.41	59.14
J-3350	2127.00	Low System	0.79	2263.44	59.15
J-204	2126.00	Low System	3.70	2262.53	59.19
J-2180	2136.00	Low System	0.00	2272.53	59.19
J-9315	2127.00	Low System	27.22	2263.55	59.20
J-455	2120.00	Low System	8.00	2256.84	59.32
J-192	2120.00	Low System	0.00	2256.95	59.37
J-131	2125.50	Low System	5.00	2262.64	59.45
J-45	2127.00	Low System	1.00	2264.23	59.49
J-7710	2126.00	Low System	0.00	2263.32	59.53
J-6050	2127.00	Low System	0.46	2264.35	59.54
J-625	2120.00	Low System	5.79	2257.35	59.55
J-7700	2126.00	Low System	40.68	2263.43	59.58
J-3610	2126.00	Low System	0.00	2263.44	59.58
J-11065	2127.00	Low System	0.81	2264.56	59.63
J-31	2125.00	Low System	0.00	2262.69	59.69
J-468	2124.90	Low System	2.00	2262.60	59.70
J-9970	2124.50	Low System	12.62	2262.24	59.71
J-648	2134.50	Low System	5.00	2272.53	59.84
J-1630	2126.00	Low System	0.19	2264.38	59.99
J-9525	2125.00	Low System	1.54	2263.76	60.15
J-9110	2124.00	Low System	4.56	2262.87	60.20
J-6070	2125.00	Low System	7.09	2264.14	60.32
J-1570	2118.50	Low System	0.21	2257.66	60.33
J-9325	2124.00	Low System	1.15	2263.22	60.35
J-1560	2118.00	Low System	1.16	2257.66	60.55
J-7760	2123.00	Low System	0.00	2262.66	60.55
J-458	2117.00	Low System	8.00	2256.80	60.61
J-11085	2124.00	Low System	2.31	2263.84	60.62
J-6600	2124.00	Low System	2.50	2263.92	60.66
MJ-14	2126.00	Low System	0.00	2265.92	60.66
MJ-13	2126.00	Low System	0.00	2265.92	60.66
J-1090	2117.00	Low System	2.39	2256.93	60.66
J-646	2132.50	Low System	0.00	2272.53	60.71
J-1640	2124.00	Low System	3.46	2264.38	60.86
J-278	2117.00	Low System	10.00	2257.38	60.86
J-4220	2132.00	Low System	0.58	2272.49	60.91
J-7250	2132.00	Low System	0.38	2272.53	60.92
J-11135	2122.00	Low System	1.73	2262.71	61.00
J-9560	2124.00	Low System	0.38	2264.97	61.11
J-5270	2122.00	Low System	0.00	2263.36	61.28
J-3250	2121.00	Low System	0.77	2262.66	61.41
MJ-4	2124.00	Low System	0.00	2265.67	61.42
MJ-3	2124.00	Low System	0.00	2265.67	61.42
J-9915	2121.00	Low System	44.40	2263.14	61.62
J-1220	2116.00	Low System	0.00	2258.21	61.65
J-381	2114.50	Low System	0.00	2256.92	61.74
J-569	2120.00	Low System	4.17	2262.52	61.79
MJ-9	2123.00	Low System	8.61	2265.57	61.81
J-4340	2115.00	Low System	243.39	2257.60	61.82
J-117	2120.00	Low System	3.33	2262.64	61.84

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-9100	2120.00	Low System	0.00	2262.66	61.84
J-1550	2115.00	Low System	0.00	2257.66	61.85
J-214	2115.00	Low System	0.00	2257.67	61.85
J-585	2119.00	Low System	2.31	2261.69	61.86
MJ-1	2123.00	Low System	0.00	2265.75	61.88
MJ-2	2123.00	Low System	0.00	2265.75	61.88
J-9540	2120.50	Low System	6.15	2263.49	61.99
J-122	2119.50	Low System	3.33	2262.65	62.06
J-607	2122.00	Low System	1.67	2265.23	62.09
J-7010	2129.00	Low System	1.73	2272.52	62.22
J-647	2129.00	Low System	0.00	2272.53	62.22
MJ-12	2122.00	Low System	0.00	2265.55	62.23
MJ-10	2122.00	Low System	0.00	2265.56	62.23
MJ-11	2122.00	Low System	0.00	2265.56	62.23
MJ-8	2122.00	Low System	0.00	2265.57	62.24
MJ-7	2122.00	Low System	7.22	2265.57	62.24
MJ-6	2122.00	Low System	0.00	2265.60	62.25
MJ-5	2122.00	Low System	0.00	2265.60	62.25
J-523	2119.50	Low System	0.00	2263.20	62.30
J-4905	2122.00	Low System	4.97	2265.82	62.35
J-5520	2117.00	Low System	0.96	2260.91	62.39
J-9345	2119.00	Low System	2.69	2263.30	62.56
J-5610	2117.00	Low System	2.11	2261.50	62.64
J-118	2118.00	Low System	3.33	2262.65	62.71
J-120	2118.00	Low System	0.00	2262.65	62.71
J-3310	2118.00	Low System	1.78	2262.66	62.71
J-109	2118.00	Low System	3.33	2262.67	62.72
J-9575	2119.00	Low System	1.73	2263.94	62.84
J-6090	2119.00	Low System	0.00	2264.23	62.96
MJ-29	2119.00	Low System	11.01	2264.28	62.98
J-1980	2120.00	Low System	0.19	2265.37	63.02
J-411	2118.10	Low System	4.17	2263.48	63.03
J-7020	2127.00	Low System	0.58	2272.52	63.08
J-7030	2127.00	Low System	1.35	2272.52	63.08
J-119	2117.00	Low System	3.33	2262.64	63.14
J-121	2117.00	Low System	3.33	2262.65	63.14
J-4330	2112.00	Low System	1.58	2257.66	63.15
J-9555	2118.50	Low System	1.71	2264.74	63.40
J-5790	2117.00	Low System	1.92	2263.34	63.44
J-6060	2117.50	Low System	0.82	2264.19	63.59
J-9550	2118.00	Low System	0.38	2264.69	63.59
J-9580	2117.00	Low System	0.00	2263.83	63.66
J-9465	2116.50	Low System	2.79	2263.42	63.69
J-220	2110.00	Low System	4.00	2256.92	63.69
J-193	2110.00	Low System	0.00	2256.95	63.71
J-184	2110.00	Low System	0.00	2256.99	63.72
J-9940	2115.00	Low System	6.92	2262.27	63.84
J-173	2118.00	Low System	0.00	2265.35	63.88
J-624	2110.00	Low System	5.79	2257.35	63.88
J-7720	2118.00	Low System	0.00	2265.35	63.88
MJ-17	2117.30	Low System	11.07	2264.66	63.88
J-11090	2116.50	Low System	0.58	2263.89	63.90
J-556	2125.00	Low System	0.00	2272.44	63.92
J-4130	2116.00	Low System	1.15	2263.65	64.01
J-586	2114.00	Low System	2.31	2261.69	64.03
J-9395	2109.00	Low System	9.14	2256.78	64.07
J-195	2109.00	Low System	0.00	2256.95	64.14
J-9955	2114.00	Low System	0.00	2262.16	64.23
J-5900	2110.00	Low System	1.35	2258.17	64.23
J-134	2114.00	Low System	5.00	2262.63	64.44
J-1130	2108.00	Low System	0.00	2256.80	64.51
J-4860	2116.00	Low System	1.29	2265.04	64.61
J-172	2116.00	Low System	20.00	2265.21	64.69
J-482	2115.00	Low System	0.00	2264.31	64.73
J-481	2115.00	Low System	0.00	2264.31	64.73
J-8070	2115.00	Low System	13.05	2264.33	64.74
J-479	2115.00	Low System	13.05	2264.33	64.74

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-9380	2114.00	Low System	0.77	2263.34	64.74
J-9800	2123.00	Low System	1.35	2272.52	64.82
J-11070	2112.00	Low System	0.00	2261.54	64.83
J-4850	2114.00	Low System	1.11	2263.61	64.86
MJ-16	2115.00	Low System	0.00	2264.66	64.88
J-492	2108.00	Low System	0.00	2257.66	64.88
J-6470	2114.00	Low System	8.33	2263.79	64.93
J-1400	2115.00	Low System	0.08	2264.86	64.97
J-1410	2115.00	Low System	0.34	2264.89	64.98
MJ-15	2115.00	Low System	0.00	2264.90	64.99
J-1650	2114.00	Low System	5.77	2264.26	65.14
J-1670	2113.50	Low System	0.19	2263.82	65.17
J-6440	2113.50	Low System	0.00	2263.82	65.17
J-1660	2113.50	Low System	0.00	2263.83	65.17
J-7200	2122.00	Low System	1.92	2272.49	65.24
J-4740	2112.00	Low System	0.00	2262.53	65.26
J-467	2112.00	Low System	0.00	2262.60	65.29
J-223	2108.00	Low System	3.00	2258.61	65.29
J-243	2108.00	Low System	0.00	2258.61	65.29
J-3470	2111.00	Low System	2.08	2261.63	65.30
J-9365	2113.00	Low System	2.81	2263.67	65.32
J-32	2112.00	Low System	1.33	2262.69	65.33
MJ-25	2113.20	Low System	3.43	2264.31	65.51
MJ-23	2113.20	Low System	7.64	2264.31	65.51
J-5600	2110.00	Low System	0.38	2261.14	65.52
J-4350	2107.00	Low System	1.55	2258.21	65.55
MJ-27	2113.00	Low System	0.00	2264.28	65.58
MJ-28	2113.00	Low System	0.00	2264.28	65.58
J-11130	2111.50	Low System	1.54	2262.79	65.59
J-9530	2112.50	Low System	7.51	2263.90	65.64
J-7050	2121.00	Low System	2.11	2272.49	65.67
J-4230	2121.00	Low System	0.77	2272.49	65.67
J-4760	2111.00	Low System	0.00	2262.53	65.69
J-9085	2111.00	Low System	8.11	2262.54	65.69
J-8050	2110.00	Low System	0.19	2261.63	65.73
J-3240	2111.00	Low System	1.35	2262.64	65.74
MJ-36	2112.20	Low System	7.01	2264.00	65.81
MJ-35	2112.20	Low System	23.18	2264.00	65.81
MJ-22	2112.40	Low System	9.07	2264.32	65.86
MJ-34	2112.00	Low System	0.00	2264.00	65.90
MJ-33	2112.00	Low System	0.00	2264.03	65.91
MJ-32	2112.00	Low System	0.00	2264.03	65.91
MJ-31	2112.00	Low System	0.00	2264.17	65.97
MJ-30	2112.00	Low System	0.00	2264.17	65.97
MJ-26	2112.00	Low System	0.00	2264.28	66.02
MJ-24	2112.00	Low System	0.00	2264.31	66.03
MJ-21	2112.00	Low System	0.00	2264.32	66.03
MJ-62	2112.00	Low System	13.66	2264.34	66.04
MJ-61	2112.00	Low System	0.00	2264.34	66.04
MJ-37	2111.60	Low System	27.78	2263.98	66.06
MJ-20	2112.00	Low System	0.00	2264.42	66.08
MJ-19	2112.00	Low System	0.00	2264.42	66.08
MJ-18	2112.00	Low System	0.00	2264.43	66.08
J-9795	2120.00	Low System	1.92	2272.51	66.11
J-212	2105.00	Low System	0.00	2257.52	66.12
J-1530	2105.00	Low System	9.44	2257.53	66.12
J-10015	2109.00	Low System	0.00	2261.55	66.13
J-241	2106.00	Low System	0.00	2258.61	66.16
J-4440	2109.00	Low System	0.03	2261.63	66.17
MJ-60	2111.60	Low System	5.73	2264.24	66.17
J-9135	2110.00	Low System	4.13	2262.69	66.20
J-9485	2111.00	Low System	5.98	2263.79	66.24
J-135	2109.50	Low System	5.00	2262.63	66.39
MJ-42	2110.80	Low System	15.56	2263.96	66.40
MJ-41	2110.80	Low System	11.39	2263.96	66.40
J-6100	2111.00	Low System	0.56	2264.19	66.41
J-11075	2105.50	Low System	4.40	2258.71	66.42

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-6340	2110.50	Low System	3.43	2263.76	66.44
J-6310	2110.50	Low System	4.93	2263.78	66.45
MJ-55	2110.70	Low System	5.41	2264.08	66.49
J-439	2110.00	Low System	1.20	2263.38	66.49
MJ-57	2110.70	Low System	3.41	2264.18	66.54
J-4240	2119.00	Low System	0.00	2272.49	66.54
J-7920	2109.00	Low System	1.15	2262.52	66.55
J-7950	2109.00	Low System	1.92	2262.52	66.55
J-570	2109.00	Low System	4.17	2262.52	66.55
J-4140	2110.00	Low System	1.92	2263.66	66.61
J-6040	2103.00	Low System	3.39	2256.80	66.67
MJ-43	2110.00	Low System	0.00	2263.96	66.75
MJ-44	2110.00	Low System	0.00	2263.96	66.75
MJ-40	2110.00	Low System	0.00	2263.96	66.75
MJ-38	2110.00	Low System	0.00	2263.97	66.75
MJ-39	2110.00	Low System	0.00	2263.97	66.75
J-9945	2108.00	Low System	12.02	2262.16	66.83
MJ-56	2110.00	Low System	0.00	2264.18	66.84
J-178	2109.00	Low System	0.00	2263.23	66.86
MJ-59	2110.00	Low System	0.00	2264.24	66.87
MJ-58	2110.00	Low System	0.00	2264.24	66.87
J-9775	2118.00	Low System	1.54	2272.48	66.97
J-222	2104.00	Low System	0.00	2258.61	67.03
J-5590	2106.50	Low System	0.96	2261.14	67.04
J-4150	2109.00	Low System	0.00	2263.66	67.05
MJ-49	2109.30	Low System	22.39	2263.96	67.05
MJ-47	2109.30	Low System	12.67	2263.96	67.05
J-3400	2107.00	Low System	5.38	2262.29	67.32
J-7910	2107.00	Low System	2.31	2262.50	67.41
J-6430	2108.00	Low System	2.08	2263.82	67.55
J-7960	2106.00	Low System	4.50	2261.84	67.56
MJ-53	2108.00	Low System	0.00	2264.03	67.64
MJ-54	2108.00	Low System	0.00	2264.03	67.64
J-8040	2105.50	Low System	24.28	2261.55	67.65
J-8000	2105.50	Low System	0.00	2261.57	67.66
J-10000	2106.50	Low System	0.38	2262.59	67.67
J-9950	2106.00	Low System	34.35	2262.12	67.68
J-7130	2116.00	Low System	0.00	2272.49	67.84
J-306	2106.00	Low System	0.00	2262.52	67.85
J-4720	2106.00	Low System	13.00	2262.52	67.85
J-3230	2106.00	Low System	0.38	2262.63	67.90
J-20010	2100.00	Low System	707.44	2256.64	67.91
J-9320	2106.50	Low System	1.92	2263.18	67.92
J-33	2106.00	Low System	1.33	2262.69	67.93
J-1150	2100.00	Low System	0.00	2256.74	67.95
J-6260	2107.00	Low System	0.77	2263.74	67.95
J-7810	2106.00	Low System	2.59	2262.79	67.97
J-10025	2100.00	Low System	0.84	2256.79	67.97
J-1790	2106.50	Low System	11.40	2263.29	67.97
J-368	2100.00	Low System	0.00	2256.92	68.03
J-9060	2100.00	Low System	0.00	2256.92	68.03
J-4500	2100.00	Low System	7.25	2256.92	68.03
MJ-51	2107.00	Low System	0.00	2264.01	68.07
J-3370	2106.00	Low System	3.16	2263.21	68.15
J-6320	2106.50	Low System	5.01	2263.88	68.23
J-1100	2099.50	Low System	0.00	2256.92	68.25
J-309	2105.00	Low System	12.00	2262.52	68.29
J-12060	2105.00	Low System	0.58	2262.56	68.30
J-9490	2106.00	Low System	0.00	2263.80	68.41
J-9390	2099.00	Low System	2.66	2256.85	68.43
J-9975	2104.00	Low System	0.00	2262.15	68.56
J-2320	2099.00	Low System	0.00	2257.20	68.58
J-4290	2099.00	Low System	0.00	2257.20	68.58
J-1230	2100.00	Low System	0.00	2258.21	68.59
J-4360	2100.00	Low System	0.00	2258.21	68.59
J-6300	2105.50	Low System	3.99	2263.81	68.63
J-6330	2105.50	Low System	5.13	2263.88	68.66

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-9460	2105.00	Low System	2.28	2263.44	68.69
J-242	2100.00	Low System	0.00	2258.61	68.76
J-4810	2104.50	Low System	0.00	2263.13	68.77
J-4930	2105.00	Low System	0.00	2263.69	68.79
J-1800	2104.50	Low System	9.23	2263.31	68.85
J-412	2104.60	Low System	6.25	2263.47	68.87
J-10080	2102.50	Low System	1.15	2261.61	68.98
J-10075	2102.50	Low System	1.54	2261.61	68.98
J-2200	2104.00	Low System	0.00	2263.29	69.06
J-9480	2104.00	Low System	2.99	2263.79	69.27
J-457	2097.00	Low System	8.00	2256.80	69.28
J-3340	2103.50	Low System	4.23	2263.61	69.41
J-53	2103.20	Low System	2.50	2263.33	69.42
J-6420	2103.50	Low System	0.00	2263.80	69.49
J-2760	2103.50	Low System	5.45	2263.84	69.51
MJ-52	2103.50	Low System	15.24	2264.01	69.58
J-7990	2101.00	Low System	0.00	2261.57	69.61
J-7980	2101.00	Low System	8.66	2261.57	69.61
J-2330	2096.50	Low System	0.13	2257.10	69.62
J-2300	2097.00	Low System	0.00	2257.89	69.75
MJ-48	2103.00	Low System	0.00	2263.96	69.78
MJ-45	2103.00	Low System	0.00	2263.96	69.78
MJ-46	2103.00	Low System	0.00	2263.96	69.78
MJ-50	2103.00	Low System	0.00	2263.96	69.78
J-9005	2096.50	Low System	2.92	2257.66	69.87
J-5580	2096.00	Low System	0.95	2257.44	69.99
J-431	2111.00	Low System	0.00	2272.46	70.00
J-9995	2101.00	Low System	2.50	2262.59	70.05
J-9125	2101.00	Low System	4.39	2262.69	70.10
J-5840	2100.50	Low System	0.43	2262.38	70.18
J-9985	2101.00	Low System	2.69	2262.94	70.20
J-2940	2102.00	Low System	0.38	2264.05	70.25
J-6410	2101.50	Low System	0.00	2263.79	70.36
J-5800	2101.00	Low System	0.58	2263.34	70.38
J-4790	2100.00	Low System	0.00	2262.39	70.40
J-1340	2100.00	Low System	0.38	2262.39	70.40
J-7070	2110.00	Low System	2.11	2272.49	70.44
J-4215	2110.00	Low System	0.00	2272.50	70.45
J-1330	2099.00	Low System	0.10	2261.63	70.50
J-8500	2095.00	Low System	1.07	2257.85	70.60
J-1970	2102.00	Low System	29.84	2264.98	70.65
J-7040	2109.50	Low System	0.77	2272.49	70.66
J-8370	2095.00	Low System	0.38	2258.14	70.72
J-301	2095.00	Low System	0.00	2258.14	70.72
J-2290	2095.00	Low System	21.78	2258.14	70.73
J-5810	2100.00	Low System	0.00	2263.35	70.82
J-7140	2109.00	Low System	0.38	2272.49	70.88
J-9475	2100.00	Low System	2.99	2263.79	71.01
J-369	2093.10	Low System	0.00	2256.92	71.02
J-8380	2094.00	Low System	1.88	2257.85	71.03
J-5820	2099.50	Low System	0.00	2263.35	71.03
J-7240	2108.50	Low System	2.11	2272.53	71.11
J-9520	2100.00	Low System	4.19	2264.04	71.12
J-1390	2100.00	Low System	5.98	2264.22	71.19
J-4400	2094.00	Low System	0.00	2258.22	71.19
J-1250	2094.00	Low System	0.00	2258.22	71.19
J-9385	2092.50	Low System	9.96	2256.79	71.22
J-380	2092.50	Low System	0.00	2256.92	71.28
J-34	2098.00	Low System	1.33	2262.69	71.40
J-2780	2099.00	Low System	7.30	2263.82	71.45
J-367	2092.00	Low System	6.50	2256.92	71.49
J-4680	2092.00	Low System	0.00	2256.98	71.52
J-51	2098.30	Low System	2.50	2263.33	71.54
J-10165	2092.00	Low System	0.00	2257.05	71.55
J-2340	2092.00	Low System	0.00	2257.05	71.55
J-9980	2098.00	Low System	1.35	2263.21	71.62
J-231	2107.00	Low System	5.00	2272.47	71.73

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-4710	2097.00	Low System	1.92	2262.52	71.76
J-313	2096.00	Low System	6.00	2261.63	71.80
J-1680	2098.00	Low System	1.45	2263.66	71.82
J-426	2096.00	Low System	4.91	2261.70	71.83
J-424	2096.00	Low System	2.60	2261.70	71.83
J-423	2096.00	Low System	2.60	2261.70	71.83
J-1960	2099.00	Low System	0.61	2264.86	71.90
J-9990	2096.50	Low System	2.50	2262.63	72.02
J-1810	2097.00	Low System	10.14	2263.34	72.11
J-433	2106.00	Low System	7.00	2272.46	72.16
J-4690	2096.00	Low System	0.58	2262.52	72.19
J-9405	2093.50	Low System	0.00	2260.18	72.26
J-6030	2090.00	Low System	3.55	2256.79	72.31
J-182	2090.00	Low System	0.00	2256.98	72.39
J-6240	2096.50	Low System	0.59	2263.93	72.59
J-3220	2095.00	Low System	0.96	2262.61	72.66
J-10105	2090.00	Low System	0.76	2257.65	72.68
J-4370	2090.50	Low System	0.00	2258.21	72.71
J-1240	2090.50	Low System	0.00	2258.21	72.71
J-20000	2089.00	Low System	210.23	2256.75	72.72
J-1950	2097.00	Low System	0.00	2264.77	72.73
J-2770	2096.00	Low System	2.12	2263.84	72.76
J-190	2089.00	Low System	0.00	2256.98	72.82
J-7890	2094.50	Low System	3.07	2262.49	72.83
J-3210	2094.50	Low System	0.58	2262.59	72.87
J-9105	2094.20	Low System	2.03	2262.69	73.05
J-9375	2095.00	Low System	15.90	2263.55	73.07
J-128	2094.00	Low System	5.00	2262.63	73.10
J-497	2089.00	Low System	0.00	2257.66	73.12
J-498	2089.00	Low System	0.00	2257.66	73.12
J-499	2089.00	Low System	0.00	2257.66	73.12
J-6360	2095.00	Low System	0.77	2263.75	73.16
J-3620	2094.00	Low System	0.00	2262.85	73.20
J-6290	2095.00	Low System	0.58	2263.89	73.21
J-7970	2092.00	Low System	5.15	2261.57	73.51
J-9095	2093.00	Low System	3.15	2262.66	73.55
J-20030	2093.00	Low System	118.04	2262.68	73.56
J-10170	2087.00	Low System	0.00	2256.95	73.68
J-5890	2089.50	Low System	0.96	2259.70	73.79
J-1780	2093.00	Low System	2.36	2263.32	73.84
J-429	2102.00	Low System	7.00	2272.46	73.90
J-9785	2102.00	Low System	0.96	2272.48	73.91
J-20040	2089.00	Low System	12.52	2259.50	73.91
J-5880	2089.50	Low System	0.00	2260.18	73.99
MJ-64	2092.60	Low System	4.48	2263.35	74.02
J-8390	2087.00	Low System	0.86	2257.80	74.05
J-1120	2086.00	Low System	0.00	2256.81	74.05
J-2790	2092.50	Low System	9.59	2263.45	74.11
J-4660	2086.00	Low System	0.58	2256.96	74.11
J-5525	2088.00	Low System	0.38	2259.15	74.20
J-501	2093.00	Low System	0.00	2264.31	74.27
J-2950	2093.00	Low System	0.00	2264.34	74.28
J-1940	2093.00	Low System	6.50	2264.34	74.28
J-10005	2090.50	Low System	0.00	2262.15	74.41
J-10100	2086.00	Low System	2.88	2257.65	74.41
J-9400	2088.50	Low System	1.59	2260.18	74.43
J-466	2085.00	Low System	8.00	2256.80	74.48
J-6590	2092.00	Low System	0.00	2263.85	74.50
J-2350	2085.00	Low System	0.00	2256.95	74.54
J-10090	2089.50	Low System	0.19	2261.61	74.61
J-5870	2089.00	Low System	3.15	2261.24	74.67
J-10030	2091.00	Low System	0.00	2263.25	74.68
J-5860	2089.00	Low System	0.59	2261.26	74.68
J-529	2091.00	Low System	0.00	2263.34	74.71
J-1820	2091.00	Low System	2.02	2263.34	74.71
J-24000	2090.00	Low System	0.00	2262.58	74.82
MJ-63	2091.00	Low System	0.00	2263.91	74.96

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated	
				Hydraulic Grade (ft)	Pressure (psi)
J-1930	2091.00	Low System	1.86	2263.96	74.98
J-9780	2099.50	Low System	2.50	2272.48	74.99
J-10060	2089.00	Low System	0.58	2262.04	75.02
J-7900	2089.00	Low System	1.35	2262.49	75.21
J-7930	2089.00	Low System	1.73	2262.53	75.23
J-9090	2089.00	Low System	15.64	2262.65	75.28
J-5830	2089.00	Low System	0.77	2262.68	75.30
J-1350	2089.00	Low System	0.00	2262.77	75.33
J-1360	2089.00	Low System	0.00	2262.79	75.34
J-4800	2089.00	Low System	0.00	2262.80	75.35
J-1110	2083.00	Low System	0.00	2256.90	75.39
J-10350	2088.00	Low System	0.63	2261.92	75.40
J-2360	2083.00	Low System	0.00	2256.93	75.40
J-9790	2098.50	Low System	0.58	2272.46	75.42
J-2260	2088.00	Low System	0.00	2262.04	75.45
J-8200	2087.50	Low System	1.35	2261.61	75.48
J-11225	2087.00	Low System	1.92	2261.59	75.69
J-3480	2087.00	Low System	4.04	2261.62	75.70
J-493	2083.00	Low System	0.00	2257.66	75.72
J-21000	2085.50	Low System	0.00	2260.21	75.74
J-8400	2083.00	Low System	5.49	2257.76	75.76
J-4595	2082.00	Low System	0.58	2256.93	75.83
J-10035	2088.00	Low System	8.79	2263.15	75.93
J-384	2087.00	Low System	1.00	2262.21	75.96
J-9495	2088.50	Low System	1.78	2263.73	75.97
J-6280	2088.50	Low System	1.18	2263.75	75.97
J-344	2087.00	Low System	3.33	2262.52	76.09
J-3500	2086.00	Low System	0.58	2261.62	76.13
J-130	2087.00	Low System	0.00	2262.63	76.14
J-9470	2087.00	Low System	1.35	2263.34	76.45
J-7230	2096.00	Low System	0.58	2272.48	76.51
J-8030	2085.00	Low System	0.00	2261.55	76.54
J-425	2085.00	Low System	2.60	2261.70	76.60
J-3420	2085.00	Low System	3.89	2261.70	76.60
J-517	2085.00	Low System	5.10	2261.77	76.63
J-1140	2080.00	Low System	3.83	2256.78	76.64
J-10020	2086.00	Low System	0.00	2262.80	76.65
J-1770	2086.50	Low System	4.91	2263.33	76.66
J-3100	2080.00	Low System	0.00	2256.91	76.69
J-8410	2080.50	Low System	0.00	2257.71	76.82
J-623	2080.00	Low System	5.79	2257.35	76.89
J-277	2080.00	Low System	10.00	2257.38	76.90
J-230	2095.00	Low System	5.00	2272.46	76.93
J-10115	2080.00	Low System	4.04	2257.47	76.94
J-9450	2086.00	Low System	2.50	2263.57	76.98
J-1380	2086.00	Low System	4.74	2263.69	77.03
J-506	2080.50	Low System	4.86	2258.22	77.05
J-11205	2084.00	Low System	0.00	2261.85	77.10
J-5850	2084.00	Low System	2.63	2261.93	77.13
J-3490	2083.50	Low System	0.58	2261.62	77.22
J-2280	2083.00	Low System	4.95	2261.18	77.24
J-213	2080.00	Low System	0.00	2258.22	77.26
J-9415	2085.50	Low System	1.26	2263.79	77.29
J-232	2094.00	Low System	5.00	2272.47	77.37
J-5560	2079.00	Low System	0.00	2257.69	77.47
J-10150	2078.00	Low System	0.00	2256.89	77.55
J-3460	2082.50	Low System	1.15	2261.59	77.64
J-348	2083.00	Low System	0.00	2262.53	77.83
J-352	2083.00	Low System	0.00	2262.53	77.83
J-10070	2082.00	Low System	0.00	2261.54	77.84
J-3320	2083.00	Low System	0.00	2262.58	77.85
J-133	2083.00	Low System	5.00	2262.63	77.87
J-6350	2084.00	Low System	2.43	2263.68	77.89
J-46	2084.00	Low System	0.00	2263.77	77.93
J-10160	2077.00	Low System	22.35	2256.88	77.98
J-366	2082.50	Low System	5.00	2262.63	78.09
J-139	2082.50	Low System	0.00	2262.63	78.09

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-1760	2083.00	Low System	3.36	2263.34	78.18
J-346	2082.00	Low System	0.00	2262.53	78.26
J-345	2082.00	Low System	3.33	2262.53	78.26
J-3325	2082.00	Low System	3.50	2262.62	78.30
J-312	2081.00	Low System	7.00	2261.63	78.31
J-6270	2083.00	Low System	1.46	2263.74	78.35
J-1320	2080.00	Low System	1.13	2260.86	78.41
J-7940	2081.50	Low System	0.77	2262.53	78.48
J-10065	2080.50	Low System	0.00	2261.54	78.48
J-353	2081.00	Low System	0.00	2262.53	78.70
J-3450	2080.00	Low System	4.90	2261.55	78.71
J-12010	2081.00	Low System	1.54	2262.57	78.71
J-8420	2076.00	Low System	0.00	2257.65	78.75
J-5550	2076.00	Low System	0.96	2257.69	78.77
J-5510	2076.00	Low System	0.00	2257.74	78.79
J-1920	2082.00	Low System	7.46	2263.83	78.83
J-7790	2081.00	Low System	20.48	2263.10	78.94
J-5530	2074.50	Low System	2.11	2256.80	79.03
J-349	2080.00	Low System	3.33	2262.53	79.13
J-351	2080.00	Low System	3.33	2262.53	79.13
J-4480	2080.00	Low System	8.11	2262.53	79.13
J-11230	2079.00	Low System	1.15	2261.53	79.13
J-8360	2079.00	Low System	0.00	2261.61	79.17
J-9500	2081.00	Low System	1.73	2263.72	79.21
J-4670	2074.00	Low System	63.61	2256.86	79.27
J-10155	2074.00	Low System	3.93	2256.89	79.29
J-10145	2074.00	Low System	0.39	2256.91	79.30
J-594	2078.50	Low System	0.53	2261.54	79.35
J-666	2078.10	Low System	10.00	2261.16	79.36
J-5910	2079.00	Low System	1.14	2262.12	79.39
J-667	2077.90	Low System	1.00	2261.16	79.45
J-9515	2080.00	Low System	6.45	2263.46	79.53
J-10140	2074.00	Low System	2.69	2257.46	79.53
J-347	2079.00	Low System	3.33	2262.53	79.56
J-4470	2079.00	Low System	0.00	2262.53	79.56
J-8510	2073.50	Low System	0.00	2257.15	79.62
J-668	2077.50	Low System	10.00	2261.16	79.62
J-521	2078.00	Low System	0.00	2261.77	79.67
J-10010	2078.00	Low System	1.92	2261.84	79.70
J-4430	2077.00	Low System	0.89	2260.86	79.71
J-9440	2079.50	Low System	2.11	2263.52	79.78
J-3440	2077.50	Low System	0.80	2261.53	79.78
J-4390	2074.00	Low System	0.17	2258.11	79.82
J-5540	2073.50	Low System	0.00	2257.74	79.87
J-3410	2077.50	Low System	24.54	2261.84	79.92
J-2370	2072.50	Low System	2.75	2256.90	79.94
J-4300	2072.50	Low System	0.00	2256.90	79.94
J-10260	2072.50	Low System	0.00	2256.90	79.94
J-5570	2073.00	Low System	0.00	2257.44	79.96
J-4460	2078.00	Low System	0.00	2262.53	80.00
J-8350	2077.00	Low System	0.19	2261.61	80.03
J-3510	2077.00	Low System	0.96	2261.62	80.03
J-1910	2079.00	Low System	0.38	2263.77	80.10
J-3040	2072.50	Low System	3.59	2257.29	80.11
J-9410	2078.50	Low System	0.00	2263.53	80.22
J-7830	2077.50	Low System	0.96	2262.60	80.24
J-365	2077.50	Low System	8.50	2262.63	80.26
J-138	2077.50	Low System	5.00	2262.63	80.26
J-1260	2073.00	Low System	0.15	2258.41	80.38
J-432	2087.00	Low System	0.00	2272.46	80.40
J-11195	2076.50	Low System	4.61	2262.05	80.44
J-8430	2072.00	Low System	0.00	2257.63	80.48
J-5930	2077.00	Low System	0.96	2262.77	80.54
J-8640	2071.00	Low System	0.00	2256.86	80.57
J-11210	2075.50	Low System	2.31	2261.61	80.68
J-8220	2075.50	Low System	0.19	2261.61	80.68
J-665	2075.00	Low System	10.00	2261.17	80.71

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-228	2086.00	Low System	0.00	2272.47	80.84
J-229	2086.00	Low System	0.00	2272.47	80.84
J-1690	2077.00	Low System	0.00	2263.53	80.86
J-9425	2077.00	Low System	1.15	2263.56	80.88
J-3520	2075.00	Low System	2.50	2261.62	80.90
J-10135	2070.50	Low System	4.04	2257.46	81.05
J-3430	2074.50	Low System	0.00	2261.50	81.07
J-8490	2070.50	Low System	3.63	2257.71	81.16
J-25	2075.00	Low System	1.00	2262.23	81.17
J-26	2075.00	Low System	1.00	2262.23	81.17
J-502	2076.00	Low System	0.69	2263.56	81.31
J-2190	2075.00	Low System	0.00	2262.64	81.35
J-1160	2069.00	Low System	0.00	2256.84	81.43
J-8650	2069.00	Low System	0.00	2256.86	81.44
J-11120	2075.00	Low System	1.54	2263.04	81.52
J-5920	2074.50	Low System	2.88	2262.55	81.52
J-6380	2075.50	Low System	1.54	2263.62	81.55
J-305	2070.00	Low System	8.50	2258.13	81.56
J-8020	2073.00	Low System	0.00	2261.17	81.57
J-8630	2068.50	Low System	2.89	2256.86	81.66
J-248	2068.50	Low System	0.00	2256.86	81.66
J-299	2075.00	Low System	0.00	2263.41	81.68
J-10085	2073.00	Low System	31.21	2261.49	81.71
J-8010	2073.00	Low System	0.00	2261.57	81.75
J-9370	2075.00	Low System	2.51	2263.57	81.75
J-4420	2072.00	Low System	1.27	2260.86	81.88
J-2310	2068.50	Low System	0.00	2257.50	81.93
J-303	2069.00	Low System	9.50	2258.13	81.99
J-1900	2074.50	Low System	5.92	2263.68	82.01
J-1370	2074.00	Low System	1.96	2263.43	82.12
J-7800	2073.50	Low System	5.00	2262.97	82.14
J-1700	2074.00	Low System	0.95	2263.52	82.16
J-6390	2074.00	Low System	4.01	2263.59	82.19
J-4410	2069.00	Low System	0.00	2258.59	82.19
J-1270	2069.00	Low System	0.00	2258.59	82.19
J-3110	2067.00	Low System	0.00	2256.89	82.32
J-215	2068.00	Low System	0.00	2258.07	82.40
J-304	2068.00	Low System	0.00	2258.13	82.43
J-302	2068.00	Low System	0.00	2258.13	82.43
J-216	2068.00	Low System	0.00	2258.19	82.45
J-5	2072.00	Low System	1.00	2262.23	82.47
J-1830	2073.00	Low System	0.66	2263.37	82.53
J-555	2082.00	Low System	1.16	2272.44	82.56
J-642	2082.00	Low System	2.90	2272.44	82.56
J-2270	2071.00	Low System	0.11	2261.46	82.57
J-4450	2072.00	Low System	3.48	2262.53	82.60
J-516	2071.00	Low System	0.69	2261.61	82.63
J-8480	2067.00	Low System	1.76	2257.63	82.64
J-6450	2073.00	Low System	8.67	2263.68	82.66
J-10180	2066.00	Low System	0.00	2256.78	82.71
J-3200	2071.50	Low System	3.56	2262.58	82.84
J-10055	2072.00	Low System	0.58	2263.21	82.89
J-336	2066.00	Low System	0.00	2257.22	82.90
J-337	2066.00	Low System	0.00	2257.22	82.90
J-300	2072.00	Low System	35.00	2263.41	82.98
J-362	2065.30	Low System	0.00	2256.76	83.00
J-10130	2066.00	Low System	3.46	2257.46	83.00
J-8230	2070.00	Low System	1.15	2261.61	83.07
J-8440	2066.00	Low System	1.54	2257.62	83.07
J-1890	2072.00	Low System	4.02	2263.63	83.08
J-10265	2065.00	Low System	3.28	2256.85	83.17
J-10280	2065.00	Low System	0.00	2256.85	83.17
J-2380	2065.00	Low System	0.38	2256.86	83.17
J-10270	2065.00	Low System	0.87	2256.87	83.18
J-410	2071.50	Low System	3.50	2263.46	83.22
J-308	2071.50	Low System	0.00	2263.47	83.22
J-2960	2065.50	Low System	0.00	2257.50	83.23

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-11080	2071.50	Low System	1.42	2263.59	83.27
J-361	2064.50	Low System	0.00	2256.80	83.37
J-1840	2071.00	Low System	4.05	2263.39	83.40
J-553	2080.00	Low System	6.90	2272.44	83.43
J-7860	2070.00	Low System	1.22	2262.53	83.47
J-290	2064.00	Low System	8.00	2256.76	83.57
J-360	2064.00	Low System	0.00	2256.79	83.58
J-225	2070.00	Low System	5.00	2262.90	83.62
J-10110	2064.50	Low System	2.31	2257.47	83.66
J-1880	2070.50	Low System	1.62	2263.59	83.71
J-58	2068.00	Low System	3.10	2261.61	83.93
J-522	2068.00	Low System	0.00	2261.83	84.03
J-518	2068.00	Low System	5.10	2261.83	84.03
J-11200	2068.00	Low System	3.46	2261.86	84.04
J-1850	2069.50	Low System	0.19	2263.40	84.06
J-10120	2063.50	Low System	2.11	2257.47	84.09
J-385	2068.00	Low System	0.00	2262.21	84.19
J-9510	2069.00	Low System	2.64	2263.44	84.30
J-9075	2068.00	Low System	1.36	2262.54	84.34
J-9435	2069.00	Low System	3.19	2263.57	84.35
J-422	2067.00	Low System	8.00	2261.62	84.37
J-10290	2062.00	Low System	4.20	2256.76	84.43
J-250	2062.00	Low System	10.00	2256.78	84.44
J-249	2062.00	Low System	0.00	2256.79	84.44
J-10330	2062.00	Low System	0.87	2256.85	84.47
J-10275	2062.00	Low System	0.00	2256.85	84.47
J-7870	2067.50	Low System	2.11	2262.51	84.54
J-363	2061.00	Low System	110.00	2256.23	84.64
J-10305	2061.50	Low System	4.20	2256.76	84.65
J-554	2077.00	Low System	0.00	2272.44	84.73
J-2450	2067.00	Low System	0.60	2262.77	84.87
J-9505	2067.50	Low System	1.54	2263.44	84.95
J-1860	2067.00	Low System	0.00	2263.44	85.16
J-1870	2067.00	Low System	0.00	2263.47	85.17
J-358	2060.11	Low System	0.00	2256.67	85.21
J-8450	2061.00	Low System	3.29	2257.61	85.23
J-8180	2065.00	Low System	0.96	2261.61	85.23
J-8240	2065.00	Low System	1.35	2261.61	85.24
J-10200	2060.00	Low System	0.00	2256.72	85.28
J-3120	2060.00	Low System	0.00	2256.88	85.35
J-4700	2065.50	Low System	1.94	2262.52	85.41
J-24	2065.00	Low System	1.00	2262.23	85.50
J-644	2075.00	Low System	1.74	2272.44	85.59
J-377	2059.20	Low System	0.00	2256.65	85.60
J-8120	2064.00	Low System	1.15	2261.61	85.67
J-2210	2065.00	Low System	1.54	2262.63	85.68
J-10190	2059.00	Low System	48.54	2256.72	85.72
J-676	2065.00	Low System	0.00	2262.97	85.82
J-9070	2064.50	Low System	0.75	2262.67	85.91
J-8520	2058.00	Low System	0.00	2256.38	86.00
J-7780	2065.00	Low System	1.15	2263.40	86.01
J-11125	2064.00	Low System	10.32	2262.71	86.14
J-359	2058.00	Low System	0.00	2256.74	86.16
J-10185	2058.00	Low System	29.41	2256.75	86.16
J-322	2058.00	Low System	3.00	2256.76	86.17
J-246	2064.00	Low System	5.00	2262.91	86.23
J-8460	2058.50	Low System	1.69	2257.59	86.31
J-11240	2058.00	Low System	1.73	2257.47	86.48
J-8530	2056.50	Low System	0.00	2256.32	86.63
J-5950	2063.50	Low System	6.33	2263.33	86.63
J-2970	2057.50	Low System	0.77	2257.50	86.70
J-7820	2063.00	Low System	9.51	2263.01	86.71
J-10175	2057.00	Low System	52.60	2257.04	86.72
J-5640	2056.50	Low System	2.88	2256.78	86.82
J-357	2056.42	Low System	0.00	2256.71	86.83
J-1720	2063.00	Low System	0.00	2263.38	86.87
J-1710	2063.00	Low System	2.59	2263.38	86.87

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-6400	2063.00	Low System	0.86	2263.50	86.92
J-8470	2057.00	Low System	2.74	2257.57	86.95
J-6460	2063.00	Low System	1.54	2263.62	86.97
J-10335	2056.00	Low System	3.86	2256.76	87.03
J-8660	2056.00	Low System	0.58	2256.82	87.06
J-1730	2062.00	Low System	0.64	2263.37	87.30
J-318	2060.00	Low System	0.00	2261.65	87.42
J-291	2055.00	Low System	6.00	2256.76	87.47
J-245	2061.00	Low System	0.00	2262.96	87.56
J-672	2061.00	Low System	0.00	2262.97	87.56
J-9420	2061.50	Low System	0.58	2263.56	87.60
J-9430	2061.50	Low System	0.19	2263.56	87.60
J-383	2060.00	Low System	1.00	2262.21	87.66
J-23	2060.00	Low System	1.00	2262.23	87.67
J-1750	2061.00	Low System	0.00	2263.35	87.72
J-356	2054.00	Low System	0.00	2256.75	87.89
J-292	2054.00	Low System	8.00	2256.78	87.91
J-5940	2060.50	Low System	2.38	2263.28	87.91
J-354	2054.00	Low System	0.00	2256.79	87.91
J-339	2053.80	Low System	3.00	2256.76	87.99
J-7840	2053.50	Low System	1.15	2256.76	88.12
J-1740	2060.00	Low System	7.50	2263.36	88.16
J-580	2058.00	Low System	3.70	2261.61	88.27
J-10195	2053.00	Low System	0.00	2256.72	88.32
J-338	2053.00	Low System	3.00	2256.76	88.34
J-8320	2058.00	Low System	0.00	2262.00	88.44
J-6710	2052.50	Low System	2.31	2256.76	88.55
J-11245	2053.00	Low System	1.15	2257.47	88.64
J-500	2059.00	Low System	0.00	2263.56	88.68
J-4600	2052.00	Low System	26.46	2256.91	88.83
J-10310	2051.50	Low System	1.15	2256.82	89.01
J-10125	2052.00	Low System	2.88	2257.46	89.07
J-11235	2056.00	Low System	0.58	2261.53	89.10
J-78	2056.00	Low System	0.00	2261.61	89.13
J-321	2051.00	Low System	4.00	2256.76	89.20
J-6370	2051.00	Low System	3.65	2256.77	89.21
J-2980	2051.50	Low System	0.00	2257.49	89.30
J-8710	2050.50	Low System	0.58	2256.76	89.42
J-6010	2057.00	Low System	4.19	2263.30	89.44
J-10315	2050.50	Low System	0.77	2256.82	89.44
J-552	2066.00	Low System	0.00	2272.44	89.50
J-355	2050.20	Low System	0.00	2256.76	89.55
J-317	2055.00	Low System	5.21	2261.63	89.58
J-311	2055.00	Low System	7.00	2261.63	89.58
J-315	2055.00	Low System	6.50	2261.64	89.58
J-10325	2050.00	Low System	2.27	2256.78	89.64
J-5960	2056.50	Low System	0.19	2263.29	89.65
J-7880	2055.50	Low System	3.46	2262.45	89.71
J-2990	2050.50	Low System	0.00	2257.49	89.74
J-8550	2049.00	Low System	0.00	2256.11	89.79
J-2250	2055.00	Low System	0.77	2262.38	89.90
J-3000	2050.00	Low System	0.19	2257.49	89.95
J-316	2054.00	Low System	4.00	2261.63	90.01
J-314	2054.00	Low System	10.50	2261.64	90.01
J-8670	2049.00	Low System	0.58	2256.76	90.07
J-1310	2052.00	Low System	0.78	2260.03	90.19
J-9	2054.00	Low System	1.00	2262.23	90.27
J-5970	2055.00	Low System	0.00	2263.29	90.30
J-6020	2055.00	Low System	0.00	2263.29	90.30
J-5980	2055.00	Low System	0.00	2263.29	90.30
J-5990	2055.00	Low System	10.47	2263.29	90.30
J-6000	2055.00	Low System	0.00	2263.29	90.30
J-3180	2054.00	Low System	0.19	2262.55	90.41
J-378	2053.00	Low System	0.69	2261.62	90.44
J-10040	2054.00	Low System	0.58	2262.78	90.51
J-1280	2050.00	Low System	1.57	2258.86	90.55
J-293	2047.70	Low System	14.00	2256.76	90.63

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8580	2047.00	Low System	8.50	2256.09	90.65
J-1300	2050.00	Low System	1.76	2259.92	91.00
J-3170	2052.50	Low System	0.00	2262.55	91.06
J-3190	2052.50	Low System	0.00	2262.55	91.06
J-10285	2046.50	Low System	1.54	2256.77	91.15
J-10205	2046.00	Low System	0.00	2256.32	91.18
J-8540	2046.00	Low System	4.85	2256.38	91.21
J-584	2049.00	Low System	0.00	2259.52	91.27
J-2240	2052.00	Low System	0.00	2262.54	91.27
J-1290	2049.00	Low System	0.98	2259.60	91.30
J-247	2052.00	Low System	5.00	2262.91	91.43
J-3150	2051.00	Low System	0.00	2262.55	91.71
J-2230	2051.00	Low System	0.00	2262.55	91.71
J-494	2046.00	Low System	0.00	2257.66	91.76
J-8680	2045.00	Low System	1.35	2256.76	91.80
J-10295	2045.00	Low System	2.47	2256.76	91.80
J-3030	2045.50	Low System	0.00	2257.47	91.89
J-3160	2050.00	Low System	20.79	2262.55	92.14
J-3020	2044.50	Low System	0.00	2257.47	92.33
J-224	2049.50	Low System	5.00	2262.71	92.43
J-10050	2049.50	Low System	0.77	2262.74	92.44
J-10300	2042.50	Low System	2.94	2256.76	92.89
J-3010	2043.00	Low System	0.77	2257.48	92.98
J-2220	2047.00	Low System	0.00	2262.59	93.46
J-641	2046.00	Low System	5.21	2261.62	93.48
J-8060	2041.00	Low System	1.54	2256.76	93.54
J-3140	2041.00	Low System	0.00	2256.85	93.58
J-3130	2041.00	Low System	0.00	2256.85	93.58
J-10255	2039.50	Low System	6.38	2256.07	93.89
J-450	2040.00	Low System	0.00	2256.82	93.99
J-8330	2045.00	Low System	1.73	2262.00	94.07
J-11220	2044.50	Low System	1.73	2261.54	94.09
J-8025	2039.50	Low System	1.35	2256.79	94.20
J-11215	2044.00	Low System	1.73	2261.56	94.32
J-8080	2044.00	Low System	1.54	2261.61	94.34
J-8590	2038.00	Low System	0.00	2256.07	94.54
J-19	2044.00	Low System	1.00	2262.23	94.61
J-10210	2038.00	Low System	5.37	2256.32	94.64
J-10320	2038.50	Low System	4.04	2256.82	94.65
J-8310	2043.00	Low System	1.15	2261.54	94.74
J-8300	2043.00	Low System	1.15	2261.54	94.74
J-631	2043.00	Low System	0.35	2261.57	94.75
J-8130	2043.00	Low System	0.58	2261.61	94.77
J-8110	2043.00	Low System	0.58	2261.61	94.77
J-8690	2038.00	Low System	1.73	2256.76	94.84
J-392	2042.00	Low System	4.00	2261.53	95.17
J-8270	2042.00	Low System	1.35	2261.53	95.17
J-8140	2042.00	Low System	0.58	2261.61	95.21
J-2390	2037.00	Low System	0.38	2256.79	95.28
J-21010	2041.00	Low System	0.00	2260.86	95.31
J-632	2041.00	Low System	0.35	2261.57	95.62
J-310	2041.00	Low System	0.00	2261.65	95.65
J-10045	2042.00	Low System	17.92	2262.76	95.71
J-10340	2036.00	Low System	0.96	2256.77	95.71
J-20	2041.00	Low System	1.00	2262.23	95.91
J-583	2038.00	Low System	0.00	2259.52	96.03
J-62	2040.00	Low System	3.90	2261.61	96.07
J-74	2040.00	Low System	0.00	2261.61	96.07
J-615	2040.00	Low System	5.21	2261.62	96.08
J-614	2040.00	Low System	5.21	2261.62	96.08
J-20050	2036.00	Low System	0.00	2257.91	96.20
J-490	2035.00	Low System	9.00	2256.91	96.20
J-489	2035.00	Low System	9.00	2256.91	96.20
J-22	2040.00	Low System	1.00	2262.23	96.34
J-8150	2039.00	Low System	1.15	2261.61	96.51
J-8100	2039.00	Low System	1.35	2261.61	96.51
J-328	2039.00	Low System	5.00	2261.72	96.55

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8720	2034.00	Low System	1.15	2256.76	96.57
J-488	2034.00	Low System	0.00	2256.92	96.64
J-390	2038.50	Low System	3.00	2261.53	96.69
J-391	2038.50	Low System	3.50	2261.53	96.69
J-8090	2038.50	Low System	0.77	2261.61	96.72
J-28	2039.00	Low System	1.00	2262.24	96.78
J-10215	2033.00	Low System	0.00	2256.32	96.81
J-8280	2038.00	Low System	1.54	2261.53	96.91
J-8015	2033.00	Low System	0.38	2256.76	97.00
J-10345	2033.00	Low System	1.54	2256.77	97.01
J-491	2032.00	Low System	1.50	2256.91	97.50
J-8600	2031.00	Low System	8.50	2256.06	97.57
J-389	2036.00	Low System	3.00	2261.53	97.77
J-581	2036.00	Low System	3.70	2261.61	97.81
J-2400	2031.00	Low System	0.00	2256.79	97.88
J-395	2035.00	Low System	3.50	2261.54	98.21
J-8210	2035.00	Low System	0.38	2261.61	98.24
J-9080	2035.00	Low System	0.00	2262.52	98.64
J-70	2034.00	Low System	0.00	2261.61	98.67
J-8190	2033.50	Low System	0.96	2261.61	98.89
J-10095	2033.00	Low System	0.00	2261.54	99.08
J-578	2033.00	Low System	0.50	2261.72	99.15
J-388	2032.00	Low System	0.00	2261.53	99.51
J-8340	2032.00	Low System	14.41	2261.92	99.68
J-8260	2031.00	Low System	0.96	2261.53	99.94
J-8160	2031.00	Low System	0.96	2261.61	99.97
J-7850	2026.00	Low System	0.96	2256.76	100.04
J-387	2030.00	Low System	0.00	2261.53	100.37
J-637	2025.00	Low System	7.00	2256.79	100.48
J-8610	2024.00	Low System	12.75	2256.04	100.60
J-8170	2029.50	Low System	1.15	2261.61	100.62
J-21	2030.00	Low System	1.00	2262.23	100.68
J-10220	2024.00	Low System	5.37	2256.31	100.71
J-612	2029.00	Low System	5.21	2261.62	100.84
J-8700	2024.00	Low System	0.19	2256.76	100.91
J-640	2028.50	Low System	0.00	2261.56	101.03
J-8005	2023.00	Low System	1.35	2256.76	101.34
J-379	2027.50	Low System	0.00	2261.62	101.50
J-8290	2027.00	Low System	0.00	2261.53	101.67
J-393	2023.00	Low System	2.00	2261.54	103.41
J-8620	2016.00	Low System	7.44	2256.03	104.06
J-27	2021.50	Low System	1.00	2262.25	104.37
J-10225	2015.00	Low System	18.40	2255.89	104.43
J-613	2020.00	Low System	5.21	2261.62	104.75
J-617	2020.00	Low System	2.78	2261.62	104.75
J-210	2015.00	Low System	0.00	2257.18	104.99
J-66	2019.00	Low System	0.00	2261.61	105.17
J-21040	2016.00	Low System	0.00	2258.72	105.23
J-21020	2016.60	Low System	0.00	2259.46	105.28
J-10250	2013.00	Low System	5.58	2256.01	105.35
J-10230	2013.00	Low System	0.00	2256.02	105.35
J-519	2018.00	Low System	5.10	2262.21	105.87
J-3330	2018.00	Low System	1.54	2262.22	105.87
J-8560	2011.50	Low System	24.48	2255.92	105.96
J-10240	2011.50	Low System	9.30	2256.00	106.00
J-10245	2011.00	Low System	0.00	2256.01	106.22
J-4250	2016.50	Low System	1.65	2262.21	106.52
J-10235	2006.00	Low System	11.16	2256.01	108.39
J-234	2003.00	Low System	10.00	2255.84	109.61
J-8570	2002.50	Low System	14.54	2255.89	109.85
J-239	2001.00	Low System	7.00	2255.85	110.48
J-236	2000.50	Low System	7.00	2255.85	110.70
J-331	2006.00	Low System	0.00	2261.72	110.86
J-238	2000.00	Low System	7.00	2255.85	110.91
J-21030	2002.00	Low System	0.00	2258.82	111.34
J-237	1999.00	Low System	7.00	2255.85	111.35
J-396	2004.00	Low System	0.00	2261.54	111.65

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8250	2003.00	Low System	3.07	2261.54	112.08
J-616	2003.00	Low System	2.78	2261.62	112.12
J-495	1999.00	Low System	0.00	2257.66	112.13
J-394	2001.00	Low System	1.00	2261.54	112.95
J-3530	2001.00	Low System	0.00	2261.63	112.99
J-240	1993.00	Low System	7.00	2255.86	113.96
J-4940	1994.00	Low System	0.00	2262.08	116.22
J-342	1992.00	Low System	1.40	2261.62	116.89
J-343	1988.00	Low System	0.69	2261.62	118.62
J-496	1980.00	Low System	0.69	2257.66	120.37
J-4960	1980.00	Low System	0.19	2261.54	122.05
J-3540	1977.00	Low System	2.50	2261.64	123.40
J-579	1974.00	Low System	0.50	2261.73	124.74
J-211	1969.00	Low System	150.00	2256.84	124.78
J-329	1972.00	Low System	5.00	2261.72	125.60
J-330	1970.00	Low System	0.00	2261.72	126.47
J-4280	1964.00	Low System	2.88	2261.93	129.16
J-4950	1962.00	Low System	0.00	2261.90	130.01
J-4260	1953.50	Low System	0.96	2262.01	133.75
J-582	1950.50	Low System	3.70	2261.61	134.87
J-4305	1950.00	Low System	1.34	2261.76	135.15
J-4270	1950.00	Low System	0.19	2261.99	135.25
J-3580	1923.00	Low System	3.47	2261.69	146.83
J-3570	1917.00	Low System	7.36	2261.67	149.42
J-3560	1915.00	Low System	0.00	2261.65	150.28
J-3555	1907.00	Low System	0.00	2261.65	153.75
J-3550	1902.50	Low System	2.50	2261.65	155.70

**TOWN OF BLACKSBURG WATER SYSTEM**  
**FIRST & MAIN PROJECT HYDRAULIC ANALYSIS**  
**MAY 4, 2007**

Run 1 - Maximum Daily Demand plus maximum available fire flow calculated for  
 Proposed First & Main Project  
 All Tanks at Normal Low Level & Triangle PS Off.

**Steady State Analysis**

Pipe Report - sorted by link label

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)	Headloss (ft)	Headloss Gradient (ft/1000ft)
						(ft)	(ft)		
MP-1	367.00	8.00	121.00	Open	76.24	2265.82	2265.75	0.07	0.18
MP-2	25.00	6.00	121.00	Open	0.00	2265.75	2265.75	0.00	0.00
MP-3	441.00	8.00	121.00	Open	76.23	2265.75	2265.67	0.08	0.18
MP-4	10.00	6.00	121.00	Open	0.00	2265.67	2265.67	0.00	0.00
MP-5	425.00	8.00	121.00	Open	76.23	2265.67	2265.60	0.08	0.18
MP-6	10.00	6.00	121.00	Open	0.00	2265.60	2265.60	0.00	0.00
MP-7	121.00	8.00	121.00	Open	76.23	2265.60	2265.57	0.02	0.18
MP-8	49.00	8.00	121.00	Open	69.01	2265.57	2265.57	0.01	0.15
MP-9	18.00	8.00	121.00	Open	8.61	2265.57	2265.57	0.00	0.00
MP-10	100.00	8.00	121.00	Open	60.40	2265.57	2265.56	0.01	0.11
MP-11	10.00	6.00	121.00	Open	0.00	2265.56	2265.56	0.00	0.00
MP-12	36.00	8.00	121.00	Open	60.40	2265.56	2265.55	0.00	0.12
MP-13	9.00	6.00	121.00	Open	0.00	2265.92	2265.92	0.00	0.00
MP-14	108.00	8.00	121.00	Open	302.94	2264.90	2264.66	0.25	2.29
MP-15	21.00	8.00	121.00	Open	11.07	2264.66	2264.66	0.00	0.00
MP-16	106.00	8.00	121.00	Open	291.87	2264.66	2264.43	0.23	2.13
MP-17	26.00	8.00	121.00	Open	128.80	2264.43	2264.42	0.01	0.46
MP-18	10.00	6.00	121.00	Open	0.00	2264.42	2264.42	0.00	0.00
MP-19	203.00	8.00	121.00	Open	128.80	2264.42	2264.32	0.10	0.47
MP-20	42.00	8.00	121.00	Open	9.07	2264.32	2264.32	0.00	0.01
MP-21	20.00	8.00	121.00	Open	119.73	2264.32	2264.31	0.01	0.42
MP-22	11.00	8.00	121.00	Open	112.09	2264.31	2264.31	0.00	0.36
MP-23	16.00	8.00	121.00	Open	3.43	2264.31	2264.31	0.00	0.00
MP-24	76.00	8.00	121.00	Open	108.65	2264.31	2264.28	0.03	0.34
MP-25	43.00	8.00	121.00	Open	11.02	2264.28	2264.28	0.00	0.00
MP-26	10.00	6.00	121.00	Open	0.00	2264.28	2264.28	0.00	0.00
MP-27	47.00	8.00	121.00	Open	11.01	2264.28	2264.28	0.00	0.01
MP-28	409.00	8.00	121.00	Open	97.64	2264.28	2264.17	0.11	0.28
MP-29	27.00	6.00	121.00	Open	0.00	2264.17	2264.17	0.00	0.00
MP-30	483.00	8.00	121.00	Open	97.64	2264.17	2264.03	0.14	0.28
MP-31	12.00	6.00	121.00	Open	0.00	2264.03	2264.03	0.00	0.00
MP-32	118.00	8.00	121.00	Open	97.64	2264.03	2264.00	0.03	0.28
MP-33	6.00	8.00	121.00	Open	23.18	2264.00	2264.00	0.00	0.04
MP-34	17.00	8.00	121.00	Open	74.45	2264.00	2264.00	0.00	0.17
MP-35	151.00	8.00	121.00	Open	67.44	2264.00	2263.98	0.02	0.14
MP-36	87.00	8.00	121.00	Open	39.67	2263.98	2263.97	0.00	0.05
MP-37	10.00	6.00	121.00	Open	0.00	2263.97	2263.97	0.00	0.00
MP-38	170.00	8.00	121.00	Open	39.66	2263.97	2263.96	0.01	0.05
MP-39	2.00	8.00	121.00	Open	11.39	2263.96	2263.96	0.00	0.00
MP-40	53.00	8.00	121.00	Open	28.27	2263.96	2263.96	0.00	0.03
MP-41	51.00	8.00	121.00	Open	12.72	2263.96	2263.96	0.00	0.00
MP-42	122.00	6.00	121.00	Open	0.00	2263.96	2263.96	0.00	0.00
MP-43	347.00	8.00	121.00	Open	12.72	2263.96	2263.96	0.00	0.01
MP-44	34.00	6.00	121.00	Open	0.00	2263.96	2263.96	0.00	0.00
MP-45	118.00	8.00	121.00	Open	12.72	2263.96	2263.96	0.00	0.01
MP-46	12.00	8.00	121.00	Open	0.05	2263.96	2263.96	0.00	0.00
MP-47	3.00	8.00	121.00	Open	22.39	2263.96	2263.96	0.00	0.00
MP-48	84.00	8.00	121.00	Open	-22.34	2263.96	2263.96	0.00	0.02
MP-49	118.00	8.00	121.00	Open	-119.62	2263.96	2264.01	0.05	0.41
MP-50	64.00	8.00	121.00	Open	15.24	2264.01	2264.01	0.00	0.01
MP-51	48.00	8.00	121.00	Open	-134.86	2264.01	2264.03	0.02	0.51
MP-52	12.00	6.00	121.00	Open	0.00	2264.03	2264.03	0.00	0.00
MP-53	98.00	8.00	121.00	Open	-134.86	2264.03	2264.08	0.05	0.51

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
MP-54	174.00	8.00	121.00	Open	-140.27	2264.08	2264.18	0.10	0.55	
MP-55	24.00	8.00	121.00	Open	3.41	2264.18	2264.18	0.00	0.00	
MP-56	116.00	8.00	121.00	Open	-143.68	2264.18	2264.24	0.07	0.57	
MP-57	14.00	6.00	121.00	Open	0.00	2264.24	2264.24	0.00	0.00	
MP-58	14.00	8.00	121.00	Open	5.73	2264.24	2264.24	0.00	0.00	
MP-59	152.00	8.00	121.00	Open	-149.41	2264.24	2264.34	0.09	0.62	
MP-60	48.00	8.00	121.00	Open	13.66	2264.34	2264.34	0.00	0.01	
MP-61	126.00	8.00	121.00	Open	-163.07	2264.34	2264.43	0.09	0.72	
MP-62	185.00	8.00	121.00	Open	97.28	2263.96	2263.91	0.05	0.28	
P-1	1.00	16.00	120.00	Open	3705.85	2225.01	2225.00	0.01	8.30	
P-2	1.00	16.00	120.00	Open	4043.64	2225.01	2225.00	0.01	9.52	
P-3	119.00	16.00	120.00	Open	-2483.45	2274.54	2275.00	0.46	3.90	
P-9	342.00	8.00	120.00	Open	-10.05	2262.23	2262.23	0.00	0.00	
P-11	243.00	8.00	120.00	Open	-11.05	2262.23	2262.23	0.00	0.01	
P-13	43.00	8.00	120.00	Open	-12.05	2262.23	2262.23	0.00	0.01	
P-15	181.00	8.00	120.00	Open	20.98	2262.23	2262.23	0.00	0.02	
P-17	67.00	8.00	120.00	Open	19.98	2262.23	2262.23	0.00	0.01	
P-19	387.00	8.00	120.00	Open	-5.05	2262.23	2262.23	0.00	0.00	
P-20	82.00	8.00	120.00	Open	-6.05	2262.23	2262.23	0.00	0.00	
P-21	100.00	8.00	120.00	Open	-7.05	2262.23	2262.23	0.00	0.00	
P-22	51.00	8.00	120.00	Open	-8.05	2262.23	2262.23	0.00	0.00	
P-23	67.00	8.00	120.00	Open	-9.05	2262.23	2262.23	0.00	0.00	
P-24	44.00	16.00	120.00	Closed	0.00	2257.04	2231.98	0.00	0.00	
P-25	45.00	16.00	100.00	Closed	0.00	2257.04	2231.97	0.00	0.00	
P-27	333.00	12.00	120.00	Open	-151.45	2262.22	2262.25	0.03	0.09	
P-28	2522.00	12.00	120.00	Open	-187.49	2262.25	2262.58	0.33	0.13	
P-29	208.00	8.00	120.00	Open	35.03	2262.25	2262.24	0.01	0.04	
P-30	109.00	8.00	120.00	Open	34.03	2262.24	2262.23	0.00	0.04	
P-37	1252.00	10.00	120.00	Open	-92.10	2262.58	2262.69	0.11	0.09	
P-39	308.00	8.00	120.00	Open	3.99	2262.69	2262.69	0.00	0.00	
P-40	80.00	8.00	120.00	Open	2.66	2262.69	2262.69	0.00	0.00	
P-41	166.00	8.00	120.00	Open	1.33	2262.69	2262.69	0.00	0.00	
P-43	185.00	8.00	120.00	Open	-14.70	2262.72	2262.73	0.00	0.01	
P-44	228.00	8.00	120.00	Open	-35.82	2262.73	2262.74	0.01	0.04	
P-45	434.00	8.00	120.00	Open	-36.82	2262.74	2262.76	0.02	0.05	
P-48	363.00	10.00	120.00	Open	-96.09	2262.69	2262.72	0.03	0.09	
P-49	506.00	10.00	120.00	Open	-81.39	2262.72	2262.76	0.03	0.07	
P-50	36.00	8.00	120.00	Open	14.70	2262.72	2262.72	0.00	0.01	
P-51	147.00	10.00	120.00	Open	-81.39	2262.76	2262.77	0.01	0.07	
P-53	492.00	10.00	120.00	Open	-120.21	2262.77	2262.84	0.07	0.14	
P-58	241.00	8.00	120.00	Open	-38.82	2262.76	2262.77	0.01	0.05	
P-62	189.00	8.00	120.00	Open	0.00	2264.23	2264.23	0.00	0.00	
P-66	18.00	8.00	120.00	Open	84.10	2264.23	2264.23	0.00	0.22	
P-70	421.00	8.00	120.00	Open	1.00	2264.23	2264.23	0.00	0.00	
P-74	400.00	8.00	120.00	Open	-40.95	2263.79	2263.81	0.02	0.06	
P-78	94.00	6.00	120.00	Open	39.70	2263.79	2263.77	0.02	0.22	
P-79	114.00	6.00	120.00	Open	39.70	2263.77	2263.74	0.02	0.22	
P-80	383.00	8.00	120.00	Open	-47.42	2263.09	2263.11	0.03	0.08	
P-81	388.00	8.00	120.00	Open	-49.42	2263.11	2263.15	0.03	0.08	
P-82	221.00	8.00	120.00	Open	51.42	2263.18	2263.16	0.02	0.09	
P-83	183.00	8.00	120.00	Open	-51.42	2263.15	2263.16	0.02	0.09	
P-84	465.00	12.00	120.00	Open	-99.64	2263.31	2263.33	0.02	0.04	
P-85	356.00	12.00	120.00	Open	-104.64	2263.33	2263.34	0.02	0.04	
P-86	298.00	8.00	120.00	Open	2.50	2263.33	2263.33	0.00	0.00	
P-87	418.00	8.00	120.00	Open	-7.00	2261.61	2261.61	0.00	0.00	
P-89	540.00	8.00	120.00	Open	0.00	2261.61	2261.61	0.00	0.00	
P-90	95.00	8.00	120.00	Open	0.00	2261.61	2261.61	0.00	0.00	
P-91	61.00	8.00	120.00	Open	-3.90	2261.61	2261.61	0.00	0.00	
P-93	178.00	8.00	120.00	Open	-3.90	2261.61	2261.61	0.00	0.00	
P-94	350.00	8.00	120.00	Open	-3.90	2261.61	2261.61	0.00	0.00	
P-130	222.00	6.00	120.00	Open	-3.33	2262.67	2262.67	0.00	0.00	
P-131	68.00	2.00	120.00	Open	-3.33	2262.65	2262.68	0.03	0.47	
P-132	63.00	2.00	120.00	Open	3.33	2262.68	2262.65	0.03	0.47	
P-133	85.00	4.00	120.00	Open	-6.66	2262.68	2262.68	0.00	0.06	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-134	151.00	2.00	120.00	Open	-1.00	2262.68	2262.69	0.01	0.05	
P-136	191.00	4.00	120.00	Open	3.33	2262.65	2262.64	0.00	0.02	
P-138	659.00	12.00	120.00	Open	-53.73	2262.65	2262.66	0.01	0.01	
P-139	268.00	4.00	120.00	Open	-3.33	2262.64	2262.65	0.00	0.02	
P-140	52.00	4.00	120.00	Open	6.66	2262.65	2262.65	0.00	0.06	
P-141	85.00	8.00	120.00	Open	-22.94	2262.65	2262.65	0.00	0.02	
P-142	75.00	8.00	120.00	Open	-36.26	2262.65	2262.65	0.00	0.05	
P-143	341.00	8.00	120.00	Open	-39.59	2262.65	2262.67	0.02	0.05	
P-144	256.00	8.00	120.00	Open	66.95	2262.71	2262.67	0.04	0.14	
P-145	26.00	8.00	120.00	Open	65.72	2262.64	2262.64	0.00	0.14	
P-146	160.00	8.00	120.00	Open	70.72	2262.67	2262.64	0.03	0.16	
P-147	401.00	8.00	120.00	Open	27.23	2262.64	2262.63	0.01	0.03	
P-148	36.00	8.00	120.00	Open	27.23	2262.63	2262.63	0.00	0.02	
P-149	211.00	8.00	120.00	Open	33.49	2262.64	2262.63	0.01	0.04	
P-150	66.00	8.00	120.00	Open	28.49	2262.63	2262.63	0.00	0.03	
P-151	215.00	8.00	120.00	Open	5.00	2262.63	2262.63	0.00	0.00	
P-155	275.00	8.00	120.00	Open	-18.49	2262.63	2262.63	0.00	0.01	
P-157	654.00	12.00	120.00	Open	-76.67	2262.63	2262.65	0.02	0.03	
P-159	126.00	8.00	120.00	Open	8.77	2262.67	2262.67	0.00	0.00	
P-160	117.00	8.00	120.00	Open	-55.02	2262.67	2262.68	0.01	0.10	
P-162	75.00	8.00	120.00	Open	-62.68	2262.70	2262.71	0.01	0.12	
P-163	67.00	8.00	120.00	Open	-61.68	2262.68	2262.69	0.01	0.12	
P-164	54.00	8.00	120.00	Open	-62.68	2262.69	2262.70	0.01	0.13	
P-165	32.00	8.00	120.00	Open	-1.00	2262.69	2262.69	0.00	0.00	
P-166	30.00	8.00	120.00	Open	306.95	2265.19	2265.12	0.07	2.38	
P-167	1335.00	8.00	120.00	Open	215.95	2265.12	2263.47	1.65	1.24	
P-171	113.00	8.00	120.00	Open	38.50	2265.07	2265.06	0.01	0.05	
P-180	42.00	8.00	120.00	Open	0.00	2265.00	2265.00	0.00	0.00	
P-181	116.00	8.00	120.00	Open	-11.00	2265.00	2265.00	0.00	0.00	
P-182	274.00	8.00	120.00	Open	0.00	2265.00	2265.00	0.00	0.00	
P-184	176.00	8.00	120.00	Open	-22.00	2265.00	2265.00	0.00	0.02	
P-189	191.00	8.00	120.00	Open	-33.00	2265.00	2265.01	0.01	0.04	
P-190	90.00	8.00	120.00	Open	-44.00	2265.01	2265.01	0.01	0.07	
P-191	98.00	8.00	120.00	Open	-55.00	2265.01	2265.02	0.01	0.10	
P-192	146.00	8.00	120.00	Open	-66.00	2265.02	2265.04	0.02	0.14	
P-193	112.00	8.00	120.00	Open	-77.00	2265.04	2265.06	0.02	0.18	
P-194	113.00	8.00	120.00	Open	-38.50	2265.06	2265.07	0.01	0.05	
P-195	162.00	8.00	120.00	Open	91.01	2265.12	2265.08	0.04	0.25	
P-196	49.00	8.00	120.00	Open	88.00	2265.08	2265.07	0.01	0.23	
P-197	120.00	6.00	120.00	Open	-7.99	2265.08	2265.08	0.00	0.01	
P-198	152.00	8.00	120.00	Open	-7.99	2265.08	2265.08	0.00	0.00	
P-199	75.00	8.00	120.00	Open	-7.99	2265.08	2265.08	0.00	0.00	
P-200	156.00	8.00	120.00	Open	-7.99	2265.08	2265.08	0.00	0.00	
P-203	17.00	8.00	120.00	Open	107.99	2265.35	2265.35	0.01	0.34	
P-204	392.00	8.00	120.00	Open	-107.99	2265.21	2265.35	0.13	0.34	
P-205	170.00	8.00	120.00	Open	-67.99	2265.10	2265.12	0.02	0.15	
P-206	392.00	8.00	120.00	Open	-87.99	2265.12	2265.21	0.09	0.24	
P-207	140.00	8.00	120.00	Open	-27.99	2265.08	2265.09	0.00	0.03	
P-208	140.00	8.00	120.00	Open	-47.99	2265.09	2265.10	0.01	0.08	
P-209	225.00	6.00	115.00	Open	48.83	2263.35	2263.27	0.08	0.35	
P-210	122.00	6.00	115.00	Open	-3.20	2263.27	2263.27	0.00	0.00	
P-211	343.00	8.00	120.00	Open	52.03	2263.27	2263.24	0.03	0.09	
P-212	1010.00	6.00	115.00	Open	12.29	2263.26	2263.23	0.03	0.03	
P-213	441.00	6.00	115.00	Open	27.20	2263.23	2263.18	0.05	0.12	
P-215	318.00	8.00	120.00	Open	15.47	2263.24	2263.23	0.00	0.01	
P-216	617.00	8.00	120.00	Open	14.91	2263.23	2263.23	0.01	0.01	
P-218	606.00	16.00	100.00	Open	-186.47	2257.01	2257.04	0.03	0.05	
P-222	257.00	16.00	120.00	Open	-186.47	2256.98	2256.99	0.01	0.03	
P-223	142.00	16.00	120.00	Open	186.47	2257.01	2257.01	0.00	0.03	
P-224	105.00	16.00	120.00	Open	-186.47	2256.99	2256.99	0.00	0.03	
P-225	121.00	16.00	120.00	Open	186.47	2257.01	2257.00	0.00	0.03	
P-226	266.00	16.00	120.00	Open	-186.47	2256.99	2257.00	0.01	0.03	
P-227	53.00	8.00	120.00	Open	-105.27	2256.96	2256.98	0.02	0.33	
P-228	63.00	8.00	120.00	Open	0.00	2256.98	2256.98	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-229	172.00	16.00	120.00	Open	-186.47	2256.98	2256.98	0.01	0.03	
P-230	3149.00	16.00	120.00	Open	-81.20	2256.95	2256.98	0.02	0.01	
P-231	23.00	8.00	120.00	Open	26.20	2256.95	2256.95	0.00	0.03	
P-232	449.00	16.00	120.00	Open	55.00	2256.95	2256.95	0.00	0.00	
P-233	339.00	16.00	120.00	Open	55.00	2256.95	2256.95	0.00	0.00	
P-234	106.00	16.00	120.00	Open	86.05	2256.95	2256.95	0.00	0.01	
P-236	1433.00	16.00	120.00	Open	-55.00	2256.95	2256.95	0.00	0.00	
P-237	395.00	8.00	120.00	Open	0.00	2256.95	2256.95	0.00	0.00	
P-239	78.00	8.00	120.00	Open	30.39	2262.55	2262.55	0.00	0.03	
P-240	102.00	8.00	120.00	Open	30.39	2262.55	2262.55	0.00	0.03	
P-241	87.00	8.00	120.00	Open	30.39	2262.55	2262.55	0.00	0.03	
P-242	120.00	8.00	120.00	Open	26.69	2262.55	2262.54	0.00	0.03	
P-243	82.00	8.00	120.00	Open	26.69	2262.54	2262.54	0.00	0.02	
P-244	73.00	8.00	120.00	Open	26.69	2262.54	2262.54	0.00	0.03	
P-246	347.00	8.00	120.00	Open	-0.97	2262.54	2262.54	0.00	0.00	
P-247	144.00	8.00	120.00	Open	26.69	2262.54	2262.54	0.00	0.03	
P-249	536.00	8.00	120.00	Open	22.02	2262.54	2262.53	0.01	0.02	
P-258	68.00	20.00	120.00	Open	368.28	2257.10	2257.09	0.00	0.04	
P-261	76.00	20.00	120.00	Open	575.16	2257.53	2257.52	0.01	0.09	
P-264	300.00	16.00	120.00	Open	-916.82	2258.22	2258.41	0.18	0.62	
P-265	72.00	16.00	115.00	Open	-261.70	2257.66	2257.67	0.00	0.06	
P-266	479.00	16.00	115.00	Open	584.59	2257.67	2257.53	0.14	0.29	
P-268	118.00	8.00	120.00	Open	105.95	2258.11	2258.07	0.04	0.33	
P-269	844.00	8.00	120.00	Open	-185.71	2258.07	2258.86	0.79	0.94	
P-271	340.00	20.00	120.00	Open	-554.63	2258.19	2258.22	0.03	0.08	
P-272	17.00	8.00	120.00	Open	554.63	2258.19	2258.07	0.12	7.12	
P-273	2266.00	20.00	120.00	Open	846.29	2258.07	2257.67	0.41	0.18	
P-277	558.00	8.00	120.00	Open	79.45	2257.03	2256.92	0.11	0.19	
P-279	73.00	8.00	120.00	Open	-505.51	2258.17	2258.61	0.44	5.99	
P-280	181.00	8.00	120.00	Open	-508.52	2258.61	2259.70	1.10	6.05	
P-281	137.00	4.00	120.00	Open	3.01	2258.61	2258.61	0.00	0.01	
P-282	488.00	8.00	120.00	Open	5.00	2262.71	2262.71	0.00	0.00	
P-283	800.00	8.00	120.00	Open	-88.39	2262.71	2262.90	0.19	0.24	
P-286	957.00	8.00	120.00	Open	123.82	2264.36	2263.93	0.42	0.44	
P-288	579.00	8.00	120.00	Open	26.43	2272.48	2272.47	0.01	0.03	
P-289	64.00	8.00	120.00	Open	13.54	2272.47	2272.47	0.00	0.01	
P-292	373.00	8.00	120.00	Open	-2.37	2272.47	2272.47	0.00	0.00	
P-293	405.00	8.00	120.00	Open	5.00	2272.47	2272.47	0.00	0.00	
P-294	815.00	8.00	120.00	Open	-12.37	2272.47	2272.47	0.00	0.01	
P-295	44.00	8.00	120.00	Open	-17.37	2272.47	2272.47	0.00	0.01	
P-300	725.00	16.00	120.00	Open	4339.42	2240.00	2232.05	7.95	10.97	
P-302	312.00	8.00	120.00	Open	-10.00	2255.84	2255.85	0.00	0.00	
P-303	165.00	8.00	120.00	Open	-11.81	2255.85	2255.85	0.00	0.01	
P-304	98.00	6.00	120.00	Open	5.19	2255.85	2255.85	0.00	0.00	
P-305	179.00	8.00	120.00	Open	-12.19	2255.85	2255.85	0.00	0.01	
P-306	47.00	8.00	120.00	Open	-18.81	2255.85	2255.85	0.00	0.01	
P-307	432.00	8.00	120.00	Open	45.00	2255.89	2255.86	0.03	0.07	
P-308	308.00	8.00	120.00	Open	38.00	2255.86	2255.85	0.02	0.05	
P-309	65.00	4.00	120.00	Open	0.00	2258.61	2258.61	0.00	0.00	
P-310	826.00	16.00	100.00	Open	-3410.08	2231.87	2240.00	8.13	9.84	
P-311	144.00	4.00	120.00	Open	0.00	2258.61	2258.61	0.00	0.00	
P-312	104.00	4.00	120.00	Open	0.00	2258.61	2258.61	0.00	0.00	
P-313	607.00	12.00	100.00	Open	407.30	2264.84	2264.37	0.47	0.78	
P-314	766.00	12.00	100.00	Open	279.47	2264.37	2264.07	0.30	0.39	
P-315	26.00	8.00	120.00	Open	-125.82	2264.36	2264.37	0.01	0.46	
P-316	612.00	8.00	120.00	Open	8.00	2262.97	2262.96	0.00	0.00	
P-317	302.00	8.00	120.00	Open	-66.73	2262.96	2263.01	0.04	0.14	
P-319	67.00	8.00	120.00	Open	-93.39	2262.90	2262.91	0.02	0.26	
P-320	731.00	16.00	120.00	Open	4043.64	2232.05	2225.01	7.04	9.63	
P-321	157.00	8.00	120.00	Open	-103.39	2262.91	2262.96	0.05	0.32	
P-322	635.00	8.00	120.00	Open	5.00	2262.91	2262.91	0.00	0.00	
P-323	34.00	8.00	120.00	Open	-2.89	2256.86	2256.86	0.00	0.00	
P-324	83.00	8.00	120.00	Open	-12.89	2256.86	2256.86	0.00	0.01	
P-325	561.00	4.00	120.00	Open	10.00	2256.86	2256.79	0.07	0.12	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-326	64.00	4.00	120.00	Open	10.00	2256.79	2256.78	0.01	0.12	
P-327	252.00	16.00	120.00	Open	141.05	2256.95	2256.94	0.00	0.02	
P-330	838.00	16.00	120.00	Open	-3705.85	2225.01	2231.87	6.86	8.19	
P-333	67.00	8.00	120.00	Open	2.00	2256.91	2256.91	0.00	0.00	
P-335	302.00	16.00	120.00	Open	-201.85	2256.95	2256.96	0.01	0.04	
P-336	65.00	8.00	120.00	Open	64.46	2256.95	2256.94	0.01	0.14	
P-340	1741.00	16.00	100.00	Open	-27.72	2257.03	2257.04	0.00	0.00	
P-342	77.00	8.00	120.00	Open	0.00	2256.92	2256.92	0.00	0.00	
P-343	509.00	8.00	120.00	Open	-10.46	2256.91	2256.92	0.00	0.00	
P-346	66.00	6.00	120.00	Open	3.00	2256.91	2256.91	0.00	0.00	
P-347	107.00	4.00	120.00	Open	3.00	2256.91	2256.91	0.00	0.01	
P-348	114.00	4.00	120.00	Open	3.00	2256.91	2256.91	0.00	0.01	
P-349	113.00	8.00	120.00	Open	21.00	2256.92	2256.91	0.00	0.02	
P-350	198.00	16.00	100.00	Open	79.30	2257.03	2257.03	0.00	0.01	
P-351	126.00	8.00	120.00	Open	12.00	2256.91	2256.91	0.00	0.01	
P-352	117.00	4.00	120.00	Open	3.00	2256.91	2256.91	0.00	0.01	
P-353	101.00	4.00	120.00	Open	3.00	2256.91	2256.91	0.00	0.01	
P-354	220.00	8.00	120.00	Open	32.20	2256.94	2256.93	0.01	0.04	
P-356	130.00	8.00	120.00	Open	32.20	2256.93	2256.93	0.00	0.04	
P-357	226.00	8.00	120.00	Open	-11.54	2256.91	2256.91	0.00	0.01	
P-358	414.00	8.00	120.00	Open	31.54	2256.93	2256.91	0.01	0.04	
P-359	49.00	8.00	120.00	Open	0.66	2256.93	2256.93	0.00	0.00	
P-360	138.00	16.00	100.00	Open	115.91	2257.04	2257.03	0.00	0.02	
P-361	63.00	8.00	120.00	Open	0.00	2256.93	2256.93	0.00	0.00	
P-364	135.00	4.00	120.00	Open	4.00	2256.89	2256.88	0.00	0.02	
P-365	97.00	4.00	120.00	Open	16.00	2256.91	2256.89	0.03	0.29	
P-366	65.00	4.00	120.00	Open	4.00	2256.89	2256.88	0.00	0.02	
P-367	64.00	4.00	120.00	Open	4.00	2256.89	2256.88	0.00	0.02	
P-368	1673.00	20.00	120.00	Open	575.16	2257.52	2257.38	0.15	0.09	
P-370	371.00	12.00	120.00	Open	10.00	2257.38	2257.38	0.00	0.00	
P-375	874.00	16.00	120.00	Open	295.77	2232.05	2231.98	0.07	0.08	
P-388	518.00	8.00	120.00	Open	7.09	2256.76	2256.76	0.00	0.00	
P-389	406.00	8.00	120.00	Open	6.91	2256.76	2256.76	0.00	0.00	
P-391	412.00	8.00	120.00	Open	8.00	2256.78	2256.78	0.00	0.00	
P-392	369.00	8.00	120.00	Open	14.00	2256.76	2256.76	0.00	0.01	
P-394	409.00	8.00	120.00	Open	44.46	2256.94	2256.92	0.03	0.07	
P-395	20.00	8.00	120.00	Open	34.46	2256.92	2256.92	0.00	0.04	
P-396	243.00	8.00	120.00	Open	10.00	2256.92	2256.92	0.00	0.00	
P-398	20.00	8.00	120.00	Open	-2.68	2256.92	2256.92	0.00	0.00	
P-399	200.00	8.00	120.00	Open	2.32	2256.92	2256.92	0.00	0.00	
P-400	154.00	8.00	120.00	Open	-2.68	2256.92	2256.92	0.00	0.00	
P-402	312.00	12.00	120.00	Open	181.37	2263.41	2263.38	0.04	0.12	
P-403	162.00	8.00	120.00	Open	35.00	2263.41	2263.41	0.01	0.04	
P-404	401.00	8.00	120.00	Open	18.38	2258.14	2258.14	0.01	0.01	
P-405	39.00	8.00	120.00	Open	0.39	2258.14	2258.14	0.00	0.00	
P-407	371.00	8.00	120.00	Open	9.50	2258.13	2258.13	0.00	0.00	
P-408	31.00	8.00	120.00	Open	0.00	2258.13	2258.13	0.00	0.00	
P-409	509.00	8.00	120.00	Open	18.00	2258.14	2258.13	0.01	0.01	
P-410	493.00	16.00	120.00	Open	-73.99	2256.93	2256.93	0.00	0.01	
P-411	106.00	8.00	120.00	Open	9.50	2258.13	2258.13	0.00	0.00	
P-412	77.00	8.00	120.00	Open	-1.63	2262.52	2262.52	0.00	0.00	
P-417	284.00	12.00	120.00	Open	216.37	2263.52	2263.47	0.05	0.17	
P-418	327.00	12.00	120.00	Open	216.37	2263.47	2263.41	0.06	0.17	
P-419	506.00	8.00	120.00	Open	-7.27	2262.52	2262.52	0.00	0.00	
P-420	809.00	16.00	120.00	Open	-69.00	2256.92	2256.93	0.00	0.01	
P-421	421.00	8.00	120.00	Open	-19.27	2262.52	2262.53	0.01	0.01	
P-422	148.00	8.00	120.00	Open	-0.91	2256.76	2256.76	0.00	0.00	
P-423	1849.00	10.00	120.00	Open	27.60	2261.65	2261.63	0.02	0.01	
P-424	779.00	8.00	120.00	Open	-0.95	2261.63	2261.63	0.00	0.00	
P-425	789.00	8.00	120.00	Open	-7.95	2261.63	2261.63	0.00	0.00	
P-426	614.00	8.00	120.00	Open	-13.95	2261.63	2261.64	0.00	0.01	
P-427	54.00	8.00	120.00	Open	-51.72	2261.64	2261.64	0.00	0.09	
P-428	34.00	8.00	120.00	Open	27.27	2261.64	2261.63	0.00	0.03	
P-429	35.00	8.00	120.00	Open	21.55	2261.63	2261.63	0.00	0.01	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-431	1182.00	12.00	120.00	Open	-60.77	2261.63	2261.65	0.02	0.02	
P-432	1572.00	12.00	120.00	Open	-88.37	2261.65	2261.70	0.05	0.03	
P-433	84.00	10.00	120.00	Open	-27.60	2261.65	2261.65	0.00	0.01	
P-436	155.00	8.00	120.00	Open	17.77	2256.77	2256.76	0.00	0.01	
P-437	157.00	8.00	120.00	Open	10.77	2256.76	2256.76	0.00	0.00	
P-438	189.00	8.00	120.00	Open	3.00	2256.76	2256.76	0.00	0.00	
P-439	1075.00	12.00	120.00	Open	8.99	2257.66	2257.66	0.00	0.00	
P-440	256.00	16.00	120.00	Open	-400.85	2256.81	2256.84	0.03	0.13	
P-441	198.00	12.00	120.00	Open	0.99	2257.66	2257.66	0.00	0.00	
P-442	578.00	12.00	120.00	Open	6.00	2257.66	2257.66	0.00	0.00	
P-443	330.00	12.00	120.00	Open	6.00	2257.66	2257.66	0.00	0.00	
P-444	398.00	12.00	120.00	Open	6.00	2257.66	2257.66	0.00	0.00	
P-445	464.00	16.00	120.00	Open	400.85	2256.90	2256.84	0.06	0.13	
P-446	306.00	12.00	120.00	Open	6.00	2257.66	2257.66	0.00	0.00	
P-449	1087.00	10.00	120.00	Open	46.30	2261.72	2261.69	0.03	0.02	
P-450	337.00	16.00	120.00	Open	-190.62	2256.80	2256.81	0.01	0.03	
P-451	31.00	8.00	120.00	Open	-0.29	2261.72	2261.72	0.00	0.00	
P-453	411.00	8.00	120.00	Open	5.29	2261.72	2261.72	0.00	0.00	
P-454	308.00	16.00	100.00	Open	-2077.51	2269.49	2270.70	1.21	3.93	
P-455	97.00	16.00	100.00	Open	-2077.51	2270.70	2271.08	0.38	3.93	
P-456	340.00	8.00	120.00	Open	12.49	2262.73	2262.72	0.00	0.01	
P-457	237.00	8.00	120.00	Open	8.32	2262.72	2262.72	0.00	0.00	
P-458	246.00	8.00	120.00	Open	4.17	2262.72	2262.72	0.00	0.00	
P-460	469.00	16.00	120.00	Open	-187.23	2256.78	2256.80	0.02	0.03	
P-461	565.00	20.00	120.00	Open	537.79	2257.22	2257.18	0.04	0.08	
P-462	44.00	6.00	120.00	Open	0.00	2257.22	2257.22	0.00	0.00	
P-463	100.00	6.00	120.00	Open	10.64	2256.76	2256.76	0.00	0.02	
P-464	228.00	6.00	120.00	Open	4.64	2256.76	2256.76	0.00	0.00	
P-465	258.00	8.00	120.00	Open	3.00	2256.76	2256.76	0.00	0.00	
P-469	69.00	8.00	120.00	Open	0.69	2261.62	2261.62	0.00	0.00	
P-470	1063.00	16.00	120.00	Open	-203.28	2256.74	2256.78	0.04	0.04	
P-471	218.00	4.00	120.00	Open	-3.33	2262.52	2262.53	0.00	0.02	
P-472	181.00	8.00	120.00	Open	1.94	2262.53	2262.53	0.00	0.00	
P-473	254.00	8.00	120.00	Open	-4.72	2262.53	2262.53	0.00	0.00	
P-475	154.00	8.00	120.00	Open	-3.68	2262.53	2262.53	0.00	0.00	
P-476	115.00	8.00	120.00	Open	-6.56	2262.53	2262.53	0.00	0.00	
P-478	93.00	8.00	120.00	Open	16.65	2262.53	2262.53	0.00	0.01	
P-480	271.00	16.00	120.00	Open	-707.44	2256.64	2256.74	0.10	0.38	
P-481	68.00	8.00	120.00	Open	6.66	2262.53	2262.53	0.00	0.00	
P-482	59.00	4.00	120.00	Open	3.33	2262.53	2262.53	0.00	0.02	
P-483	84.00	8.00	120.00	Open	2.88	2262.53	2262.53	0.00	0.00	
P-484	204.00	8.00	120.00	Open	2.88	2262.53	2262.53	0.00	0.00	
P-485	41.00	8.00	120.00	Open	8.60	2262.53	2262.53	0.00	0.00	
P-486	31.00	8.00	120.00	Open	8.60	2262.53	2262.53	0.00	0.01	
P-488	494.00	12.00	120.00	Open	8.73	2256.79	2256.79	0.00	0.00	
P-489	566.00	8.00	120.00	Open	41.15	2256.79	2256.76	0.03	0.06	
P-491	167.00	8.00	120.00	Open	41.15	2256.76	2256.75	0.01	0.06	
P-492	564.00	8.00	120.00	Open	41.15	2256.75	2256.71	0.03	0.06	
P-493	702.00	8.00	120.00	Open	41.15	2256.71	2256.67	0.04	0.06	
P-494	448.00	8.00	120.00	Open	-68.85	2256.67	2256.74	0.07	0.15	
P-495	350.00	8.00	120.00	Open	-68.85	2256.74	2256.79	0.05	0.15	
P-496	956.00	12.00	120.00	Open	118.73	2256.86	2256.80	0.05	0.06	
P-497	1300.00	12.00	120.00	Open	49.88	2256.80	2256.79	0.01	0.01	
P-498	72.00	8.00	120.00	Open	68.85	2256.80	2256.79	0.01	0.15	
P-499	433.00	8.00	120.00	Open	0.00	2256.76	2256.76	0.00	0.00	
P-503	40.00	8.00	120.00	Open	13.49	2262.63	2262.63	0.00	0.01	
P-504	662.00	8.00	120.00	Open	17.80	2262.63	2262.62	0.01	0.01	
P-505	359.00	12.00	120.00	Open	-81.09	2262.62	2262.63	0.01	0.03	
P-506	52.00	12.00	120.00	Open	-76.67	2262.63	2262.63	0.00	0.02	
P-507	106.00	8.00	120.00	Open	-9.42	2262.63	2262.63	0.00	0.00	
P-508	361.00	8.00	120.00	Open	12.81	2262.63	2262.63	0.00	0.01	
P-509	262.00	6.00	120.00	Open	6.50	2256.92	2256.92	0.00	0.01	
P-511	5215.00	16.00	120.00	Open	-52.89	2256.90	2256.92	0.02	0.00	
P-512	520.00	16.00	120.00	Open	-59.39	2256.92	2256.92	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-515	388.00	8.00	120.00	Open	-18.04	2256.92	2256.93	0.00	0.01	
P-516	279.00	8.00	120.00	Open	20.40	2256.92	2256.92	0.00	0.02	
P-517	49.00	6.00	120.00	Open	20.40	2256.92	2256.91	0.00	0.06	
P-518	182.00	6.00	120.00	Open	20.40	2256.91	2256.90	0.01	0.06	
P-525	78.00	8.00	120.00	Open	110.00	2256.67	2256.65	0.03	0.36	
P-526	40.00	4.00	120.00	Open	110.00	2256.65	2256.23	0.42	10.40	
P-527	2686.00	12.00	120.00	Open	26.43	2261.63	2261.62	0.01	0.00	
P-528	2324.00	12.00	120.00	Open	23.65	2261.62	2261.62	0.01	0.00	
P-529	682.00	8.00	120.00	Open	2.09	2261.62	2261.62	0.00	0.00	
P-531	5063.00	6.00	120.00	Open	4.04	2261.63	2261.62	0.02	0.00	
P-532	651.00	8.00	120.00	Open	2.09	2261.62	2261.62	0.00	0.00	
P-533	139.00	8.00	120.00	Open	6.50	2256.92	2256.92	0.00	0.00	
P-534	315.00	8.00	120.00	Open	6.50	2256.92	2256.92	0.00	0.00	
P-535	188.00	8.00	120.00	Open	2.36	2256.92	2256.92	0.00	0.00	
P-536	1416.00	8.00	120.00	Open	2.36	2256.92	2256.92	0.00	0.00	
P-537	371.00	8.00	120.00	Open	7.64	2262.73	2262.72	0.00	0.00	
P-539	85.00	8.00	120.00	Open	1.00	2262.21	2262.21	0.00	0.00	
P-541	203.00	8.00	120.00	Open	1.00	2262.21	2262.21	0.00	0.00	
P-546	147.00	8.00	120.00	Open	3.39	2261.53	2261.53	0.00	0.00	
P-547	118.00	8.00	120.00	Open	3.39	2261.53	2261.53	0.00	0.00	
P-548	114.00	8.00	120.00	Open	3.39	2261.53	2261.53	0.00	0.00	
P-549	219.00	6.00	120.00	Open	3.00	2261.53	2261.53	0.00	0.00	
P-550	397.00	16.00	100.00	Open	-0.82	2258.21	2258.21	0.00	0.00	
P-551	110.00	8.00	120.00	Open	-2.61	2261.53	2261.53	0.00	0.00	
P-552	307.00	6.00	120.00	Open	4.00	2261.53	2261.53	0.00	0.00	
P-554	265.00	8.00	120.00	Open	16.81	2261.54	2261.54	0.00	0.01	
P-555	2140.00	8.00	120.00	Open	0.19	2261.54	2261.54	0.00	0.00	
P-556	182.00	8.00	120.00	Open	16.61	2261.54	2261.54	0.00	0.01	
P-557	330.00	8.00	120.00	Open	15.61	2261.54	2261.54	0.00	0.01	
P-558	360.00	8.00	120.00	Open	-10.11	2261.53	2261.54	0.00	0.00	
P-559	113.00	8.00	120.00	Open	-13.61	2261.54	2261.54	0.00	0.01	
P-560	138.00	16.00	100.00	Open	-27.32	2258.21	2258.21	0.00	0.00	
P-570	335.00	16.00	120.00	Open	-109.29	2258.21	2258.22	0.00	0.01	
P-590	304.00	16.00	120.00	Open	-916.97	2258.41	2258.59	0.19	0.62	
P-592	291.00	6.00	120.00	Open	-6.45	2263.46	2263.46	0.00	0.01	
P-593	333.00	6.00	120.00	Open	16.01	2263.46	2263.44	0.01	0.04	
P-595	54.00	6.00	120.00	Open	-36.37	2263.48	2263.49	0.01	0.19	
P-596	319.00	8.00	120.00	Open	-25.95	2263.46	2263.47	0.01	0.02	
P-597	451.00	8.00	120.00	Open	-32.20	2263.47	2263.48	0.02	0.04	
P-598	815.00	8.00	120.00	Open	-92.93	2264.35	2264.56	0.21	0.26	
P-599	344.00	8.00	120.00	Open	0.00	2264.56	2264.56	0.00	0.00	
P-600	438.00	16.00	120.00	Open	-916.97	2258.59	2258.86	0.27	0.62	
P-601	451.00	8.00	90.00	Open	5.40	2264.41	2264.41	0.00	0.00	
P-602	238.00	8.00	90.00	Open	-80.70	2264.41	2264.49	0.08	0.34	
P-603	788.00	8.00	120.00	Open	86.10	2264.41	2264.23	0.18	0.23	
P-618	602.00	8.00	120.00	Open	23.27	2261.63	2261.62	0.01	0.02	
P-619	503.00	8.00	120.00	Open	-58.22	2261.64	2261.70	0.05	0.11	
P-620	262.00	16.00	100.00	Open	-1105.24	2259.60	2259.92	0.32	1.22	
P-621	37.00	8.00	120.00	Open	-72.95	2261.70	2261.70	0.01	0.17	
P-622	255.00	8.00	120.00	Open	2.60	2261.70	2261.70	0.00	0.00	
P-623	49.00	8.00	120.00	Open	-9.53	2261.70	2261.70	0.00	0.00	
P-625	126.00	8.00	120.00	Open	21.48	2256.94	2256.94	0.00	0.02	
P-626	301.00	16.00	120.00	Open	-88.48	2256.95	2256.95	0.00	0.01	
P-627	138.00	16.00	120.00	Open	-127.39	2256.95	2256.95	0.00	0.02	
P-629	847.00	8.00	120.00	Open	-13.54	2272.46	2272.47	0.01	0.01	
P-630	95.00	16.00	100.00	Open	-1106.99	2259.92	2260.03	0.12	1.23	
P-631	536.00	8.00	120.00	Open	26.60	2272.46	2272.45	0.01	0.03	
P-632	285.00	8.00	120.00	Open	-16.80	2272.46	2272.46	0.00	0.01	
P-634	352.00	8.00	120.00	Open	15.26	2272.47	2272.46	0.00	0.01	
P-635	428.00	8.00	120.00	Open	5.00	2272.46	2272.46	0.00	0.00	
P-636	632.00	8.00	120.00	Open	-3.26	2272.46	2272.46	0.00	0.00	
P-637	74.00	8.00	120.00	Open	0.00	2272.46	2272.46	0.00	0.00	
P-638	713.00	8.00	120.00	Open	-10.26	2272.46	2272.46	0.00	0.00	
P-640	938.00	16.00	100.00	Open	-928.43	2260.03	2260.86	0.83	0.88	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-643	675.00	8.00	120.00	Open	-13.10	2256.94	2256.95	0.00	0.01	
P-644	69.00	8.00	120.00	Open	-38.90	2256.95	2256.95	0.00	0.05	
P-645	175.00	8.00	120.00	Open	-86.75	2263.34	2263.38	0.04	0.23	
P-646	177.00	8.00	120.00	Open	-87.95	2263.38	2263.42	0.04	0.24	
P-647	414.00	8.00	120.00	Open	0.00	2264.07	2264.07	0.00	0.00	
P-648	165.00	8.00	120.00	Open	0.00	2264.07	2264.07	0.00	0.00	
P-650	618.00	16.00	100.00	Open	-1111.06	2260.86	2261.63	0.76	1.23	
P-651	56.00	4.00	120.00	Open	0.00	2264.07	2264.07	0.00	0.00	
P-660	622.00	16.00	100.00	Open	-1111.18	2261.63	2262.39	0.77	1.23	
P-664	28.00	8.00	120.00	Open	0.00	2256.80	2256.80	0.00	0.00	
P-666	25.00	8.00	120.00	Open	0.00	2256.80	2256.80	0.00	0.00	
P-668	479.00	8.00	120.00	Open	75.45	2256.92	2256.84	0.08	0.18	
P-669	98.00	8.00	120.00	Open	4.00	2256.84	2256.84	0.00	0.00	
P-670	305.00	16.00	100.00	Open	-1111.57	2262.39	2262.77	0.38	1.23	
P-671	24.00	8.00	120.00	Open	71.45	2256.84	2256.84	0.00	0.15	
P-673	170.00	8.00	120.00	Open	16.56	2256.80	2256.80	0.00	0.01	
P-674	79.00	8.00	120.00	Open	8.56	2256.80	2256.80	0.00	0.00	
P-675	29.00	8.00	120.00	Open	0.56	2256.80	2256.80	0.00	0.00	
P-676	132.00	8.00	120.00	Open	-7.44	2256.80	2256.80	0.00	0.00	
P-677	160.00	8.00	120.00	Open	-15.44	2256.80	2256.80	0.00	0.01	
P-678	51.00	8.00	120.00	Open	-23.44	2256.80	2256.80	0.00	0.02	
P-679	32.00	8.00	120.00	Open	-31.45	2256.80	2256.80	0.00	0.04	
P-680	14.00	16.00	100.00	Open	-1159.30	2262.77	2262.79	0.02	1.34	
P-681	127.00	8.00	120.00	Open	-39.45	2256.80	2256.81	0.01	0.05	
P-683	56.00	8.00	120.00	Open	-63.45	2256.83	2256.84	0.01	0.13	
P-684	126.00	8.00	120.00	Open	-47.45	2256.81	2256.82	0.01	0.07	
P-685	112.00	8.00	120.00	Open	-55.45	2256.82	2256.83	0.01	0.10	
P-686	437.00	8.00	120.00	Open	32.56	2256.82	2256.80	0.02	0.04	
P-687	90.00	8.00	120.00	Open	24.56	2256.80	2256.80	0.00	0.02	
P-688	318.00	6.00	120.00	Open	31.75	2262.65	2262.60	0.05	0.14	
P-689	519.00	6.00	120.00	Open	29.75	2262.60	2262.54	0.07	0.13	
P-690	577.00	16.00	100.00	Open	-1047.14	2262.79	2263.43	0.64	1.10	
P-691	369.00	8.00	120.00	Open	2.00	2262.60	2262.60	0.00	0.00	
P-692	1148.00	8.00	120.00	Open	32.56	2256.86	2256.82	0.04	0.04	
P-700	218.00	16.00	100.00	Open	-1105.61	2263.43	2263.69	0.27	1.22	
P-705	413.00	16.00	120.00	Open	-2150.82	2268.49	2269.72	1.23	2.99	
P-708	610.00	8.00	120.00	Open	17.10	2264.34	2264.33	0.01	0.01	
P-709	22.00	8.00	120.00	Open	4.05	2264.33	2264.33	0.00	0.00	
P-710a	258.00	16.00	100.00	Open	-1092.66	2263.91	2264.22	0.31	1.20	
P-710b	154.00	16.00	100.00	Open	-1189.93	2263.69	2263.91	0.22	1.40	
P-712	27.00	8.00	120.00	Open	0.00	2264.31	2264.31	0.00	0.00	
P-715	434.00	16.00	120.00	Open	-2168.24	2269.72	2271.04	1.32	3.04	
P-720	460.00	16.00	100.00	Open	-1194.36	2264.22	2264.86	0.65	1.41	
P-725	567.00	16.00	120.00	Open	-2168.24	2271.04	2272.76	1.72	3.04	
P-726	865.00	12.00	120.00	Open	-150.00	2256.84	2256.92	0.08	0.09	
P-727	2370.00	12.00	120.00	Open	-169.50	2256.92	2257.18	0.26	0.11	
P-728	76.00	8.00	120.00	Open	19.50	2256.92	2256.91	0.00	0.01	
P-729	89.00	8.00	120.00	Open	9.00	2256.91	2256.91	0.00	0.00	
P-730	18.00	16.00	100.00	Open	-1194.44	2264.86	2264.89	0.03	1.41	
P-731	291.00	8.00	120.00	Open	1.50	2256.91	2256.91	0.00	0.00	
P-732	303.00	12.00	120.00	Open	0.69	2257.66	2257.66	0.00	0.00	
P-733	585.00	12.00	120.00	Open	0.69	2257.66	2257.66	0.00	0.00	
P-734	458.00	12.00	120.00	Open	0.69	2257.66	2257.66	0.00	0.00	
P-735	790.00	16.00	120.00	Open	315.21	2272.76	2272.69	0.07	0.09	
P-736	228.00	12.00	120.00	Open	-700.47	2263.96	2264.31	0.35	1.52	
P-737	24.00	12.00	120.00	Open	-700.48	2264.31	2264.34	0.04	1.52	
P-738	604.00	8.00	120.00	Open	0.00	2264.31	2264.31	0.00	0.00	
P-739	563.00	12.00	120.00	Open	0.69	2257.66	2257.66	0.00	0.00	
P-740a	584.00	16.00	100.00	Open	-1213.66	2264.90	2265.75	0.85	1.45	
P-740b	14.00	16.00	100.00	Open	-910.72	2264.89	2264.90	0.01	0.85	
P-741	355.00	12.00	120.00	Open	0.69	2257.66	2257.66	0.00	0.00	
P-742	401.00	12.00	120.00	Open	0.00	2257.66	2257.66	0.00	0.00	
P-743	530.00	12.00	120.00	Open	0.00	2257.66	2257.66	0.00	0.00	
P-744	44.00	12.00	120.00	Open	0.00	2257.66	2257.66	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-745	157.00	16.00	120.00	Open	2483.45	2273.37	2272.76	0.61	3.90	
P-746	213.00	6.00	120.00	Open	1.84	2263.56	2263.56	0.00	0.00	
P-747	356.00	6.00	120.00	Open	1.15	2263.56	2263.56	0.00	0.00	
P-748	303.00	6.00	120.00	Open	0.69	2263.56	2263.56	0.00	0.00	
P-750	838.00	16.00	100.00	Open	-1167.71	2265.75	2266.88	1.13	1.35	
P-753	191.00	8.00	120.00	Open	4.86	2257.22	2257.22	0.00	0.00	
P-754	230.00	16.00	120.00	Open	-109.29	2258.22	2258.22	0.00	0.01	
P-755	298.00	16.00	120.00	Open	-2483.45	2273.37	2274.54	1.16	3.90	
P-756	16.00	16.00	120.00	Open	-362.20	2258.22	2258.22	0.00	0.12	
P-757	625.00	8.00	120.00	Open	-248.05	2257.22	2258.22	1.00	1.60	
P-758	1022.00	6.00	100.00	Open	0.32	2256.95	2256.95	0.00	0.00	
P-760	56.00	16.00	100.00	Open	-1747.37	2266.88	2267.04	0.16	2.85	
P-761	29.00	6.00	120.00	Open	0.32	2256.95	2256.95	0.00	0.00	
P-762	1254.00	6.00	100.00	Open	0.32	2256.95	2256.95	0.00	0.00	
P-763	298.00	16.00	120.00	Open	-227.05	2256.96	2256.98	0.01	0.05	
P-764	700.00	16.00	120.00	Open	11.28	2256.98	2256.98	0.00	0.00	
P-765	163.00	8.00	120.00	Open	238.33	2257.22	2256.98	0.24	1.49	
P-770	63.00	16.00	100.00	Open	-14.18	2267.04	2267.04	0.00	0.00	
P-775	1062.00	16.00	120.00	Open	315.21	2272.69	2272.60	0.09	0.09	
P-778	144.00	8.00	120.00	Open	11.79	2261.61	2261.61	0.00	0.01	
P-779	368.00	8.00	120.00	Open	-75.55	2261.70	2261.77	0.07	0.18	
P-780	127.00	16.00	100.00	Open	-311.87	2267.04	2267.06	0.01	0.12	
P-781	301.00	8.00	120.00	Open	80.65	2261.83	2261.77	0.06	0.20	
P-782	79.00	10.00	120.00	Open	68.83	2262.21	2262.21	0.00	0.05	
P-783	534.00	10.00	120.00	Open	2.00	2262.21	2262.21	0.00	0.00	
P-784	1708.00	8.00	120.00	Open	85.76	2262.21	2261.83	0.38	0.22	
P-785	154.00	8.00	120.00	Open	0.00	2261.77	2261.77	0.00	0.00	
P-786	57.00	8.00	120.00	Open	0.00	2261.83	2261.83	0.00	0.00	
P-787	405.00	8.00	120.00	Open	36.01	2263.24	2263.22	0.02	0.04	
P-788	516.00	8.00	115.00	Open	-34.86	2263.18	2263.20	0.02	0.05	
P-789	401.00	8.00	115.00	Open	-34.86	2263.20	2263.22	0.02	0.05	
P-790	87.00	16.00	100.00	Open	-1733.19	2267.04	2267.29	0.24	2.81	
P-800	347.00	16.00	100.00	Open	-1773.58	2267.29	2268.31	1.02	2.93	
P-804	621.00	6.00	115.00	Open	-1.35	2263.34	2263.34	0.00	0.00	
P-805	117.00	8.00	120.00	Open	-1.35	2263.34	2263.34	0.00	0.00	
P-810	165.00	16.00	100.00	Open	-1779.65	2268.31	2268.79	0.49	2.95	
P-820	201.00	16.00	100.00	Open	-1935.24	2268.79	2269.49	0.69	3.45	
P-825	2119.00	16.00	120.00	Open	27.72	2257.04	2257.04	0.00	0.00	
P-835	502.00	16.00	120.00	Open	368.28	2257.09	2257.04	0.06	0.11	
P-840	204.00	16.00	100.00	Open	-2078.08	2271.08	2271.88	0.80	3.93	
P-843	39.00	16.00	100.00	Open	-2354.02	2271.88	2272.07	0.19	4.96	
P-845	293.00	16.00	100.00	Open	-594.66	2272.07	2272.19	0.11	0.39	
P-847	307.00	12.00	120.00	Open	-1759.36	2272.07	2274.64	2.57	8.37	
P-848	252.00	12.00	120.00	Open	-675.55	2274.64	2275.00	0.36	1.42	
P-849	186.00	12.00	100.00	Open	-1351.88	2272.19	2273.53	1.34	7.20	
P-850	70.00	12.00	100.00	Open	0.00	2273.53	2273.53	0.00	0.00	
P-851	287.00	12.00	120.00	Open	1351.88	2275.00	2273.53	1.47	5.14	
P-852	2310.00	12.00	120.00	Open	19.60	2272.45	2272.44	0.00	0.00	
P-853	609.00	12.00	120.00	Open	19.60	2272.44	2272.44	0.00	0.00	
P-854	1030.00	12.00	120.00	Open	12.70	2272.44	2272.44	0.00	0.00	
P-855	132.00	12.00	120.00	Open	12.70	2272.44	2272.44	0.00	0.00	
P-856	356.00	12.00	120.00	Open	6.90	2272.44	2272.44	0.00	0.00	
P-857	181.00	12.00	120.00	Open	6.90	2272.44	2272.44	0.00	0.00	
P-867	23.00	4.00	120.00	Open	0.00	2272.44	2272.44	0.00	0.00	
P-869	57.00	4.00	120.00	Open	0.00	2272.44	2272.44	0.00	0.00	
P-875	214.00	8.00	120.00	Open	-1.63	2262.52	2262.52	0.00	0.00	
P-876	387.00	8.00	120.00	Open	-18.32	2262.52	2262.53	0.00	0.01	
P-877	197.00	8.00	120.00	Open	-6.83	2262.52	2262.52	0.00	0.00	
P-878	918.00	8.00	120.00	Open	1.03	2262.52	2262.52	0.00	0.00	
P-880	148.00	16.00	115.00	Open	18.31	2257.66	2257.66	0.00	0.00	
P-882	158.00	10.00	120.00	Open	-3.14	2262.52	2262.52	0.00	0.00	
P-883	495.00	10.00	120.00	Open	-7.31	2262.52	2262.52	0.00	0.00	
P-884	226.00	10.00	120.00	Open	0.00	2262.52	2262.52	0.00	0.00	
P-885	97.00	8.00	120.00	Open	0.00	2262.52	2262.52	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream			Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)	Headloss (ft)	
P-890	30.00	16.00	120.00	Open	14.22	2257.66	2257.66	0.00	0.00	0.00
P-895	187.00	8.00	120.00	Open	-5.00	2261.72	2261.72	0.00	0.00	0.00
P-896	750.00	8.00	120.00	Open	5.29	2261.72	2261.72	0.00	0.00	0.00
P-897	824.00	10.00	120.00	Open	57.30	2261.76	2261.73	0.03	0.04	
P-898	358.00	10.00	120.00	Open	46.01	2261.73	2261.72	0.01	0.02	
P-899	1463.00	8.00	120.00	Open	-10.79	2261.72	2261.73	0.01	0.00	
P-900	940.00	16.00	100.00	Open	-295.77	2231.87	2231.97	0.10	0.11	
P-901	623.00	8.00	120.00	Open	11.10	2261.61	2261.61	0.00	0.00	
P-902	784.00	8.00	120.00	Open	7.40	2261.61	2261.61	0.00	0.00	
P-903	980.00	8.00	120.00	Open	3.70	2261.61	2261.61	0.00	0.00	
P-904	540.00	16.00	100.00	Open	-1104.26	2258.86	2259.52	0.66	1.22	
P-905	61.00	16.00	100.00	Open	-1104.26	2259.52	2259.60	0.07	1.22	
P-906	552.00	8.00	120.00	Open	0.00	2259.52	2259.52	0.00	0.00	
P-907	557.00	8.00	120.00	Open	4.62	2261.70	2261.69	0.00	0.00	
P-908	144.00	8.00	120.00	Open	2.31	2261.69	2261.69	0.00	0.00	
P-910	93.00	16.00	120.00	Open	-1174.96	2264.77	2264.86	0.09	0.97	
P-915	339.00	8.00	120.00	Open	36.78	2263.84	2263.82	0.02	0.05	
P-917	969.00	16.00	120.00	Open	81.25	2256.94	2256.93	0.01	0.01	
P-918	143.00	8.00	120.00	Open	17.94	2256.94	2256.93	0.00	0.01	
P-920	122.00	16.00	120.00	Open	-1175.56	2264.86	2264.98	0.12	0.98	
P-921	47.00	8.00	120.00	Open	0.00	2256.93	2256.93	0.00	0.00	
P-922	438.00	8.00	120.00	Open	13.29	2256.93	2256.93	0.00	0.01	
P-923	316.00	8.00	120.00	Open	8.64	2256.93	2256.93	0.00	0.00	
P-924	922.00	8.00	120.00	Open	3.99	2256.93	2256.93	0.00	0.00	
P-925	206.00	8.00	120.00	Open	0.53	2261.54	2261.54	0.00	0.00	
P-927	233.00	8.00	120.00	Open	24.05	2256.95	2256.95	0.00	0.02	
P-928	186.00	8.00	120.00	Open	24.05	2256.95	2256.94	0.00	0.02	
P-929	22.00	6.00	120.00	Open	15.67	2256.94	2256.94	0.00	0.04	
P-930	388.00	16.00	120.00	Open	-1205.40	2264.98	2265.37	0.40	1.02	
P-931	241.00	8.00	120.00	Open	15.67	2256.94	2256.94	0.00	0.01	
P-932	999.00	8.00	120.00	Open	24.03	2262.23	2262.21	0.02	0.02	
P-937	539.00	16.00	120.00	Closed	0.00	2256.98	2256.95	0.00	0.00	
P-939	1679.00	20.00	120.00	Open	368.29	2257.18	2257.11	0.06	0.04	
P-940	861.00	16.00	120.00	Open	-1313.59	2265.37	2266.41	1.03	1.20	
P-941	22.00	6.00	120.00	Open	0.00	2256.95	2256.95	0.00	0.00	
P-942	368.00	20.00	120.00	Open	368.28	2257.11	2257.10	0.01	0.04	
P-943	462.00	8.00	120.00	Open	0.00	2257.11	2257.11	0.00	0.00	
P-944	224.00	8.00	120.00	Open	0.00	2257.11	2257.11	0.00	0.00	
P-947	151.00	8.00	120.00	Open	22.58	2263.38	2263.37	0.00	0.02	
P-948	903.00	8.00	120.00	Open	21.89	2263.37	2263.36	0.02	0.02	
P-949	392.00	8.00	120.00	Open	0.69	2263.37	2263.37	0.00	0.00	
P-950	194.00	16.00	120.00	Open	-1315.89	2266.41	2266.64	0.23	1.20	
P-954	297.00	8.00	120.00	Open	-0.43	2261.62	2261.62	0.00	0.00	
P-955	374.00	8.00	120.00	Open	-0.07	2261.62	2261.62	0.00	0.00	
P-956	458.00	8.00	120.00	Open	15.27	2261.62	2261.62	0.00	0.01	
P-957	208.00	8.00	120.00	Open	4.78	2261.62	2261.62	0.00	0.00	
P-958	14.00	8.00	120.00	Open	5.28	2261.62	2261.62	0.00	0.00	
P-959	243.00	8.00	120.00	Open	-5.57	2261.62	2261.62	0.00	0.00	
P-960	274.00	16.00	120.00	Open	-1315.89	2266.64	2266.97	0.33	1.20	
P-962	312.00	8.00	120.00	Open	2.78	2261.62	2261.62	0.00	0.00	
P-970	64.00	16.00	120.00	Open	-1854.81	2266.97	2267.11	0.15	2.27	
P-971	270.00	20.00	120.00	Open	555.16	2257.38	2257.35	0.02	0.08	
P-972	1731.00	20.00	120.00	Open	537.79	2257.35	2257.22	0.13	0.08	
P-973	157.00	12.00	120.00	Open	-5.79	2257.35	2257.35	0.00	0.00	
P-974	368.00	12.00	120.00	Open	11.58	2257.35	2257.35	0.00	0.00	
P-975	106.00	8.00	120.00	Open	8.32	2262.72	2262.72	0.00	0.00	
P-976	174.00	8.00	120.00	Open	3.39	2262.72	2262.72	0.00	0.00	
P-977	346.00	8.00	120.00	Open	1.31	2262.72	2262.72	0.00	0.00	
P-978	218.00	8.00	120.00	Open	2.08	2262.72	2262.72	0.00	0.00	
P-979	198.00	8.00	120.00	Open	-2.85	2262.72	2262.72	0.00	0.00	
P-980	568.00	16.00	120.00	Open	-1854.81	2267.11	2268.41	1.29	2.27	
P-984	1713.00	8.00	120.00	Open	28.30	2261.62	2261.57	0.05	0.03	
P-986	238.00	8.00	120.00	Open	0.35	2261.57	2261.57	0.00	0.00	
P-990	35.00	16.00	120.00	Open	-1879.23	2268.41	2268.49	0.08	2.33	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-991	16.00	8.00	120.00	Open	-29.91	2265.23	2265.23	0.00	0.03	
P-992	253.00	8.00	120.00	Open	1.67	2265.23	2265.23	0.00	0.00	
P-993	337.00	8.00	120.00	Open	62.28	2266.37	2266.33	0.04	0.12	
P-994	157.00	8.00	120.00	Open	-144.06	2266.33	2266.42	0.09	0.58	
P-996	305.00	8.00	120.00	Open	174.77	2265.23	2264.97	0.26	0.84	
P-998	797.00	8.00	120.00	Open	7.00	2256.79	2256.79	0.00	0.00	
P-999	49.00	12.00	100.00	Open	51.45	2263.85	2263.85	0.00	0.02	
P-1000	30.00	12.00	120.00	Open	-27.72	2257.04	2257.04	0.00	0.01	
P-1001	546.00	12.00	100.00	Open	36.17	2263.85	2263.84	0.00	0.01	
P-1002	437.00	8.00	120.00	Open	7.64	2263.85	2263.85	0.00	0.00	
P-1003	403.00	8.00	120.00	Open	27.60	2261.57	2261.56	0.01	0.03	
P-1004	411.00	8.00	120.00	Open	27.60	2261.56	2261.54	0.01	0.03	
P-1005	762.00	8.00	120.00	Open	-11.13	2261.62	2261.62	0.00	0.01	
P-1006	527.00	8.00	120.00	Open	-16.34	2261.62	2261.63	0.01	0.01	
P-1007	28.00	12.00	120.00	Open	4.64	2272.44	2272.44	0.00	0.00	
P-1008	85.00	8.00	120.00	Open	1.74	2272.44	2272.44	0.00	0.00	
P-1009	305.00	8.00	120.00	Open	206.34	2266.33	2265.98	0.35	1.14	
P-1010	28.00	12.00	120.00	Open	-295.77	2231.97	2231.98	0.01	0.31	
P-1011	660.00	8.00	120.00	Open	206.34	2265.98	2265.23	0.75	1.14	
P-1012	138.00	12.00	120.00	Open	10.00	2272.53	2272.53	0.00	0.00	
P-1013	278.00	8.00	120.00	Open	0.00	2272.53	2272.53	0.00	0.00	
P-1014	405.00	8.00	120.00	Open	10.00	2272.53	2272.53	0.00	0.00	
P-1015	464.00	8.00	120.00	Open	5.00	2272.53	2272.53	0.00	0.00	
P-1016	230.00	12.00	100.00	Open	184.44	2263.95	2263.91	0.04	0.18	
P-1017	128.00	12.00	100.00	Open	137.56	2263.91	2263.90	0.01	0.10	
P-1018	84.00	8.00	120.00	Open	-21.37	2263.89	2263.90	0.00	0.02	
P-1019	249.00	8.00	120.00	Open	21.35	2263.90	2263.89	0.00	0.02	
P-1020	1115.00	12.00	120.00	Open	30.47	2261.64	2261.63	0.01	0.00	
P-1021	271.00	8.00	120.00	Open	44.79	2263.91	2263.90	0.02	0.07	
P-1039	151.00	8.00	120.00	Open	0.00	2261.17	2261.17	0.00	0.00	
P-1040	258.00	8.00	120.00	Open	-31.00	2261.17	2261.18	0.01	0.03	
P-1041	176.00	8.00	120.00	Open	21.00	2261.17	2261.16	0.00	0.02	
P-1042	41.00	8.00	120.00	Open	11.00	2261.16	2261.16	0.00	0.01	
P-1043	226.00	8.00	120.00	Open	10.00	2261.16	2261.16	0.00	0.00	
P-1046	52.00	16.00	120.00	Open	108.84	2256.94	2256.94	0.00	0.01	
P-1047	511.00	16.00	120.00	Open	103.84	2256.94	2256.94	0.01	0.01	
P-1048	364.00	8.00	120.00	Open	5.00	2256.94	2256.94	0.00	0.00	
P-1050	328.00	6.00	120.00	Open	28.65	2263.01	2262.97	0.04	0.12	
P-1052	28.00	6.00	120.00	Open	28.65	2262.97	2262.96	0.00	0.11	
P-1054	341.00	8.00	120.00	Open	0.00	2262.97	2262.97	0.00	0.00	
P-1600	235.00	12.00	120.00	Open	577.34	2266.88	2266.63	0.25	1.06	
P-1610	24.00	12.00	120.00	Open	278.27	2266.63	2266.63	0.01	0.27	
P-1620	21.00	12.00	120.00	Open	299.07	2266.63	2266.63	0.01	0.31	
P-1630	643.00	12.00	120.00	Open	577.34	2266.63	2265.94	0.68	1.06	
P-1640	501.00	12.00	120.00	Open	571.76	2265.94	2265.42	0.52	1.04	
P-1650	603.00	12.00	120.00	Open	495.70	2265.42	2264.94	0.48	0.80	
P-1660	554.00	12.00	120.00	Open	559.18	2264.94	2264.38	0.55	1.00	
P-1670	41.00	12.00	120.00	Open	228.79	2264.38	2264.38	0.01	0.19	
P-1680	378.00	12.00	120.00	Open	295.39	2264.38	2264.26	0.12	0.31	
P-1690	871.00	12.00	120.00	Open	382.09	2264.26	2263.83	0.43	0.49	
P-1700	22.00	12.00	120.00	Open	382.09	2263.83	2263.82	0.01	0.50	
P-1710	717.00	12.00	120.00	Open	245.67	2263.82	2263.66	0.16	0.22	
P-1720	347.00	12.00	120.00	Open	334.82	2263.66	2263.53	0.13	0.39	
P-1730	37.00	12.00	120.00	Open	206.87	2263.53	2263.52	0.01	0.16	
P-1750	12.00	12.00	120.00	Open	44.40	2263.38	2263.38	0.00	0.00	
P-1770	28.00	12.00	120.00	Open	28.10	2263.38	2263.38	0.00	0.00	
P-1780	79.00	12.00	120.00	Open	72.49	2263.38	2263.37	0.00	0.02	
P-1790	138.00	12.00	120.00	Open	160.87	2263.37	2263.36	0.01	0.10	
P-1800	69.00	12.00	120.00	Open	159.01	2263.36	2263.35	0.01	0.10	
P-1810	304.00	12.00	120.00	Open	112.87	2263.35	2263.34	0.02	0.05	
P-1820	116.00	12.00	120.00	Open	127.31	2263.34	2263.33	0.01	0.07	
P-1830	240.00	12.00	120.00	Open	122.41	2263.33	2263.32	0.01	0.06	
P-1840	375.00	12.00	120.00	Open	120.05	2263.32	2263.29	0.02	0.06	
P-1850	27.00	12.00	100.00	Open	-359.32	2263.29	2263.31	0.02	0.62	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-1870	266.00	12.00	120.00	Open	-29.38	2263.34	2263.34	0.00	0.00	
P-1880	520.00	12.00	120.00	Open	-120.26	2263.34	2263.37	0.03	0.06	
P-1890	65.00	12.00	120.00	Open	-226.39	2263.37	2263.39	0.01	0.19	
P-1900	86.00	12.00	120.00	Open	-230.44	2263.39	2263.40	0.02	0.19	
P-1910	213.00	12.00	120.00	Open	-230.63	2263.40	2263.44	0.04	0.19	
P-1920	153.00	12.00	120.00	Open	-221.87	2263.44	2263.47	0.03	0.18	
P-1930	284.00	12.00	120.00	Open	-348.68	2263.47	2263.59	0.12	0.42	
P-1940	108.00	12.00	120.00	Open	-339.97	2263.59	2263.63	0.04	0.40	
P-1950	115.00	12.00	120.00	Open	-343.98	2263.63	2263.68	0.05	0.41	
P-1960	205.00	12.00	120.00	Open	-349.90	2263.68	2263.77	0.09	0.42	
P-1970	153.00	12.00	120.00	Open	-350.29	2263.77	2263.83	0.06	0.42	
P-1980	371.00	12.00	120.00	Open	-317.24	2263.83	2263.96	0.13	0.35	
P-2000	151.00	12.00	120.00	Open	-972.44	2264.34	2264.77	0.42	2.79	
P-2190	558.00	12.00	120.00	Open	128.60	2272.60	2272.57	0.04	0.07	
P-2200	814.00	12.00	120.00	Open	62.22	2272.57	2272.55	0.01	0.02	
P-2210	1145.00	12.00	120.00	Open	62.02	2272.55	2272.53	0.02	0.02	
P-2220	482.00	12.00	120.00	Open	13.99	2272.53	2272.53	0.00	0.00	
P-2225	542.00	12.00	120.00	Open	13.99	2272.53	2272.53	0.00	0.00	
P-2230	309.00	12.00	120.00	Open	10.39	2272.53	2272.53	0.00	0.00	
P-2240	34.00	12.00	120.00	Open	10.00	2272.53	2272.53	0.00	0.00	
P-2250	440.00	12.00	100.00	Open	467.97	2263.29	2262.85	0.44	1.01	
P-2260	59.00	12.00	120.00	Open	-120.05	2263.29	2263.29	0.00	0.06	
P-2270	184.00	12.00	120.00	Open	134.33	2262.64	2262.63	0.01	0.07	
P-2280	463.00	12.00	120.00	Open	132.79	2262.63	2262.59	0.03	0.07	
P-2290	359.00	12.00	120.00	Open	181.44	2262.59	2262.55	0.04	0.13	
P-2300	157.00	12.00	120.00	Open	112.38	2262.55	2262.54	0.01	0.05	
P-2310	542.00	12.00	120.00	Open	295.15	2262.54	2262.38	0.17	0.31	
P-2320	708.00	12.00	120.00	Open	374.72	2262.38	2262.04	0.34	0.48	
P-2330	1209.00	12.00	120.00	Open	374.14	2262.04	2261.46	0.58	0.48	
P-2340	344.00	12.00	120.00	Open	505.92	2261.46	2261.18	0.29	0.83	
P-2350	2312.00	12.00	120.00	Open	469.97	2261.18	2259.50	1.68	0.73	
P-2360	443.00	12.00	120.00	Open	417.29	2258.14	2257.89	0.26	0.58	
P-2370	1155.00	12.00	120.00	Open	311.12	2257.89	2257.50	0.39	0.34	
P-2380	951.00	12.00	120.00	Open	295.94	2257.50	2257.20	0.29	0.31	
P-2390	333.00	12.00	120.00	Open	295.94	2257.20	2257.10	0.10	0.31	
P-2400	223.00	12.00	120.00	Open	260.26	2257.10	2257.05	0.05	0.24	
P-2410	388.00	12.00	120.00	Open	260.26	2257.05	2256.95	0.09	0.24	
P-2420	98.00	12.00	120.00	Open	260.26	2256.95	2256.93	0.02	0.24	
P-2430	392.00	12.00	120.00	Open	134.76	2256.93	2256.90	0.03	0.07	
P-2440	608.00	12.00	120.00	Open	132.01	2256.90	2256.86	0.04	0.07	
P-2460	195.00	12.00	120.00	Open	0.00	2256.79	2256.79	0.00	0.00	
P-2470	1250.00	12.00	120.00	Open	14.01	2257.66	2257.66	0.00	0.00	
P-2480	566.00	12.00	120.00	Open	0.00	2257.66	2257.66	0.00	0.00	
P-2500	687.00	12.00	120.00	Open	-1.80	2257.66	2257.66	0.00	0.00	
P-2510	311.00	12.00	120.00	Open	47.73	2262.77	2262.77	0.00	0.01	
P-2520	389.00	12.00	120.00	Open	-155.01	2268.76	2268.79	0.04	0.09	
P-2530	958.00	12.00	120.00	Open	-152.70	2268.67	2268.76	0.09	0.09	
P-2540	805.00	12.00	120.00	Open	-290.93	2268.43	2268.67	0.24	0.30	
P-2550	89.00	12.00	120.00	Open	-0.19	2268.43	2268.43	0.00	0.00	
P-2560	36.00	12.00	120.00	Open	0.00	2263.40	2263.40	0.00	0.00	
P-2570	422.00	12.00	120.00	Open	71.75	2263.40	2263.39	0.01	0.02	
P-2580	137.00	12.00	120.00	Open	137.35	2263.39	2263.38	0.01	0.07	
P-2590	426.00	12.00	120.00	Open	136.38	2263.38	2263.35	0.03	0.07	
P-2600	50.00	12.00	120.00	Open	0.00	2263.35	2263.35	0.00	0.00	
P-2610	45.00	12.00	100.00	Open	0.00	2273.53	2273.53	0.00	0.00	
P-2630	230.00	12.00	120.00	Open	467.97	2262.85	2262.68	0.17	0.72	
P-2635	661.00	12.00	120.00	Open	123.73	2262.68	2262.64	0.04	0.06	
P-2650	1959.00	12.00	120.00	Open	-457.46	2258.14	2259.50	1.35	0.69	
P-2720	611.00	12.00	100.00	Open	757.22	2272.19	2270.68	1.50	2.46	
P-2730	634.00	12.00	100.00	Open	756.45	2270.68	2269.12	1.56	2.46	
P-2750	1172.00	12.00	100.00	Open	754.91	2269.12	2266.26	2.87	2.45	
P-2760	1257.00	12.00	100.00	Open	495.74	2266.26	2264.84	1.41	1.12	
P-2780	338.00	12.00	100.00	Open	261.94	2264.07	2263.95	0.12	0.34	
P-2800	325.00	12.00	100.00	Open	134.13	2263.90	2263.87	0.03	0.10	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-2810	200.00	12.00	100.00	Open	124.14	2263.87	2263.85	0.02	0.09	
P-2820	35.00	12.00	100.00	Open	124.14	2263.85	2263.85	0.00	0.08	
P-2840	143.00	12.00	100.00	Open	30.72	2263.84	2263.84	0.00	0.01	
P-2860	1016.00	12.00	100.00	Open	62.69	2263.84	2263.82	0.02	0.02	
P-2880	344.00	12.00	100.00	Open	274.51	2263.82	2263.69	0.13	0.38	
P-2885	699.00	12.00	100.00	Open	-261.83	2263.45	2263.69	0.24	0.34	
P-2890	383.00	12.00	100.00	Open	268.91	2263.45	2263.31	0.14	0.36	
P-3040	1647.00	12.00	120.00	Open	195.49	2264.05	2263.82	0.24	0.14	
P-3050	1289.00	12.00	120.00	Open	248.36	2264.34	2264.05	0.29	0.22	
P-3060	21.00	12.00	120.00	Open	265.46	2264.34	2264.34	0.01	0.24	
P-3070	156.00	12.00	120.00	Open	15.18	2257.50	2257.50	0.00	0.00	
P-3080	281.00	12.00	120.00	Open	13.84	2257.50	2257.50	0.00	0.00	
P-3090	294.00	12.00	120.00	Open	11.64	2257.50	2257.49	0.00	0.00	
P-3100	42.00	12.00	120.00	Open	10.39	2257.49	2257.49	0.00	0.00	
P-3110	50.00	12.00	120.00	Open	88.98	2257.49	2257.49	0.00	0.03	
P-3120	439.00	12.00	120.00	Open	88.79	2257.49	2257.48	0.01	0.03	
P-3130	322.00	12.00	120.00	Open	80.70	2257.48	2257.47	0.01	0.03	
P-3140	167.00	12.00	120.00	Open	67.63	2257.47	2257.47	0.00	0.02	
P-3150	573.00	12.00	120.00	Open	293.83	2257.47	2257.29	0.17	0.30	
P-3160	2351.00	12.00	120.00	Open	226.20	2257.91	2257.47	0.44	0.19	
P-3200	299.00	12.00	120.00	Open	125.50	2256.93	2256.91	0.02	0.06	
P-3210	317.00	12.00	120.00	Open	134.37	2256.91	2256.89	0.02	0.07	
P-3220	144.00	12.00	120.00	Open	111.35	2256.89	2256.88	0.01	0.05	
P-3230	950.00	12.00	120.00	Open	84.99	2256.88	2256.85	0.03	0.03	
P-3240	64.00	12.00	120.00	Open	27.93	2256.85	2256.85	0.00	0.00	
P-3250	31.00	12.00	120.00	Open	69.06	2262.55	2262.55	0.00	0.02	
P-3260	114.00	12.00	120.00	Open	20.79	2262.55	2262.55	0.00	0.00	
P-3270	34.00	12.00	120.00	Open	-182.77	2262.54	2262.55	0.00	0.13	
P-3280	88.00	12.00	120.00	Open	0.19	2262.55	2262.55	0.00	0.00	
P-3290	149.00	12.00	120.00	Open	48.27	2262.55	2262.55	0.00	0.01	
P-3300	12.00	12.00	120.00	Open	182.96	2262.55	2262.55	0.00	0.12	
P-3310	507.00	12.00	120.00	Open	-134.69	2262.55	2262.58	0.04	0.07	
P-3320	590.00	12.00	120.00	Open	-56.26	2262.58	2262.59	0.01	0.01	
P-3330	327.00	12.00	120.00	Open	-116.75	2262.59	2262.61	0.02	0.05	
P-3340	297.00	12.00	120.00	Open	-143.47	2262.61	2262.63	0.02	0.08	
P-3350	259.00	12.00	120.00	Open	-78.98	2262.63	2262.64	0.01	0.03	
P-3360	544.00	12.00	120.00	Open	-81.47	2262.64	2262.66	0.02	0.03	
P-3370	141.00	12.00	120.00	Open	-80.31	2263.44	2263.44	0.00	0.03	
P-3380	352.00	12.00	120.00	Open	-103.30	2262.66	2262.67	0.02	0.04	
P-3390	16.00	12.00	120.00	Open	-95.84	2262.67	2262.67	0.00	0.05	
P-3400	1048.00	12.00	120.00	Open	43.74	2262.68	2262.67	0.01	0.01	
P-3410	333.00	12.00	120.00	Open	-117.55	2262.66	2262.68	0.02	0.06	
P-3420	187.00	12.00	120.00	Open	-103.01	2262.66	2262.66	0.01	0.04	
P-3430	982.00	12.00	120.00	Open	-95.39	2262.58	2262.62	0.04	0.04	
P-3450	706.00	12.00	120.00	Open	381.37	2263.96	2263.61	0.35	0.49	
P-3460	384.00	12.00	120.00	Open	366.81	2263.61	2263.44	0.18	0.46	
P-3470	35.00	12.00	120.00	Open	446.33	2263.44	2263.41	0.02	0.66	
P-3480	311.00	12.00	120.00	Open	442.30	2263.41	2263.21	0.20	0.65	
P-3490	412.00	12.00	120.00	Open	437.80	2263.21	2262.95	0.26	0.64	
P-3500	793.00	12.00	120.00	Open	316.39	2262.95	2262.67	0.28	0.35	
P-3510	23.00	12.00	120.00	Open	-43.74	2262.67	2262.67	0.00	0.00	
P-3520	18.00	12.00	120.00	Open	371.95	2262.67	2262.66	0.01	0.47	
P-3530	1072.00	12.00	120.00	Open	316.39	2262.66	2262.29	0.37	0.35	
P-3540	1430.00	12.00	120.00	Open	297.82	2262.29	2261.84	0.45	0.31	
P-3550	460.00	12.00	120.00	Open	300.84	2261.84	2261.70	0.15	0.32	
P-3560	510.00	12.00	120.00	Open	131.89	2261.50	2261.46	0.04	0.07	
P-3570	335.00	12.00	120.00	Open	163.10	2261.53	2261.50	0.03	0.10	
P-3580	227.00	12.00	120.00	Open	140.28	2261.55	2261.53	0.02	0.08	
P-3590	405.00	12.00	120.00	Open	169.33	2261.59	2261.55	0.04	0.11	
P-3600	647.00	12.00	120.00	Open	208.58	2261.70	2261.59	0.10	0.16	
P-3620	856.00	12.00	120.00	Open	-54.00	2261.62	2261.63	0.01	0.01	
P-3630	552.00	12.00	120.00	Open	-12.53	2261.62	2261.62	0.00	0.00	
P-3640	391.00	12.00	120.00	Open	-0.52	2261.62	2261.62	0.00	0.00	
P-3650	593.00	12.00	120.00	Open	12.25	2261.62	2261.62	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-3660	176.00	12.00	120.00	Open	25.20	2261.62	2261.62	0.00	0.00	
P-3680	1855.00	12.00	120.00	Open	-32.97	2261.64	2261.65	0.01	0.01	
P-3690	46.00	12.00	120.00	Open	0.00	2261.65	2261.65	0.00	0.00	
P-3700	2332.00	12.00	120.00	Open	35.47	2261.67	2261.65	0.01	0.01	
P-3705	975.00	12.00	120.00	Open	35.47	2261.65	2261.65	0.01	0.01	
P-3710	2842.00	12.00	120.00	Open	42.83	2261.69	2261.67	0.02	0.01	
P-4060	260.00	10.00	120.00	Open	325.02	2266.97	2266.74	0.23	0.89	
P-4070	576.00	10.00	120.00	Open	589.28	2266.74	2265.19	1.55	2.68	
P-4080	1321.00	10.00	120.00	Open	161.29	2263.00	2262.68	0.32	0.24	
P-4090	226.00	10.00	120.00	Open	317.72	2263.20	2263.00	0.19	0.85	
P-4100	86.00	10.00	120.00	Open	220.26	2263.23	2263.20	0.04	0.43	
P-4110	528.00	10.00	120.00	Open	221.47	2263.47	2263.23	0.23	0.44	
P-4120	302.00	10.00	120.00	Open	94.22	2263.49	2263.47	0.03	0.09	
P-4130	381.00	10.00	120.00	Open	202.41	2263.63	2263.49	0.14	0.37	
P-4135	17.00	10.00	120.00	Open	-50.81	2263.63	2263.63	0.00	0.03	
P-4140	335.00	10.00	120.00	Open	41.46	2263.64	2263.63	0.01	0.02	
P-4150	308.00	10.00	120.00	Open	45.35	2263.65	2263.64	0.01	0.02	
P-4160	244.00	10.00	120.00	Open	59.65	2263.66	2263.65	0.01	0.04	
P-4170	46.00	10.00	120.00	Open	0.00	2263.66	2263.66	0.00	0.00	
P-4190	289.00	10.00	120.00	Open	120.41	2262.88	2262.84	0.04	0.14	
P-4200	2339.00	10.00	30.00	Open	186.61	2272.60	2262.88	9.72	4.16	
P-4230	483.00	10.00	120.00	Open	-65.99	2272.54	2272.57	0.02	0.05	
P-4240	1363.00	10.00	120.00	Open	-41.10	2272.52	2272.54	0.03	0.02	
P-4250	991.00	10.00	120.00	Open	-32.32	2272.50	2272.52	0.01	0.01	
P-4255	841.00	10.00	120.00	Open	-32.32	2272.49	2272.50	0.01	0.01	
P-4260	888.00	10.00	120.00	Open	-11.13	2272.49	2272.49	0.00	0.00	
P-4270	92.00	10.00	120.00	Open	0.00	2272.49	2272.49	0.00	0.00	
P-4280	92.00	10.00	120.00	Open	-70.47	2262.21	2262.22	0.00	0.05	
P-4290	2162.00	10.00	120.00	Open	79.44	2262.22	2262.08	0.14	0.07	
P-4295	963.00	10.00	120.00	Open	58.64	2261.93	2261.90	0.04	0.04	
P-4300	490.00	10.00	120.00	Open	65.87	2262.01	2261.99	0.02	0.05	
P-4310	883.00	10.00	120.00	Open	76.56	2261.99	2261.93	0.05	0.06	
P-4320	3823.00	10.00	120.00	Open	58.64	2261.90	2261.76	0.14	0.04	
P-4325	988.00	10.00	120.00	Open	79.44	2262.08	2262.01	0.06	0.07	
P-4330	22.00	10.00	120.00	Open	0.00	2257.20	2257.20	0.00	0.00	
P-4340	28.00	10.00	120.00	Open	0.00	2256.90	2256.90	0.00	0.00	
P-4350	271.00	8.00	120.00	Open	10.79	2257.04	2257.04	0.00	0.00	
P-4360	74.00	8.00	120.00	Open	6.92	2257.04	2257.04	0.00	0.00	
P-4370	598.00	8.00	120.00	Open	1.58	2257.66	2257.66	0.00	0.00	
P-4380	40.00	8.00	120.00	Open	243.39	2257.66	2257.60	0.06	1.55	
P-4390	210.00	8.00	120.00	Open	0.82	2258.21	2258.21	0.00	0.00	
P-4400	196.00	8.00	120.00	Open	-0.72	2258.21	2258.21	0.00	0.00	
P-4410	75.00	8.00	120.00	Open	0.00	2258.21	2258.21	0.00	0.00	
P-4420	146.00	8.00	120.00	Open	25.78	2258.21	2258.21	0.00	0.03	
P-4430	18.00	8.00	120.00	Open	81.96	2258.21	2258.21	0.00	0.22	
P-4440	64.00	8.00	120.00	Open	107.74	2258.21	2258.19	0.02	0.34	
P-4450	227.00	8.00	120.00	Open	106.12	2258.19	2258.11	0.08	0.33	
P-4470	30.00	8.00	120.00	Open	0.00	2258.22	2258.22	0.00	0.00	
P-4480	46.00	8.00	120.00	Open	0.00	2258.59	2258.59	0.00	0.00	
P-4490	944.00	8.00	120.00	Open	-179.34	2260.03	2260.86	0.83	0.88	
P-4500	189.00	8.00	120.00	Open	2.16	2260.86	2260.86	0.00	0.00	
P-4510	339.00	8.00	120.00	Open	0.89	2260.86	2260.86	0.00	0.00	
P-4520	432.00	8.00	120.00	Open	0.03	2261.63	2261.63	0.00	0.00	
P-4530	164.00	8.00	120.00	Open	10.09	2262.53	2262.53	0.00	0.00	
P-4540	238.00	8.00	120.00	Open	10.09	2262.53	2262.53	0.00	0.00	
P-4560	163.00	8.00	120.00	Open	8.49	2256.98	2256.98	0.00	0.00	
P-4570	152.00	8.00	120.00	Open	9.61	2256.92	2256.92	0.00	0.00	
P-4590	437.00	8.00	120.00	Open	2.60	2256.93	2256.93	0.00	0.00	
P-4600	481.00	8.00	120.00	Open	2.59	2256.93	2256.93	0.00	0.00	
P-4610	350.00	8.00	120.00	Open	1.24	2256.93	2256.93	0.00	0.00	
P-4620	203.00	8.00	120.00	Open	-21.48	2256.93	2256.93	0.00	0.02	
P-4630	523.00	8.00	120.00	Open	-21.48	2256.93	2256.94	0.01	0.02	
P-4650	76.00	8.00	120.00	Open	-21.48	2256.94	2256.94	0.00	0.02	
P-4670	462.00	8.00	120.00	Open	24.05	2256.96	2256.95	0.01	0.02	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-4675	136.00	8.00	120.00	Open	24.43	2256.96	2256.96	0.00	0.02	
P-4690	1051.00	8.00	120.00	Open	-27.04	2256.93	2256.95	0.03	0.03	
P-4695	639.00	8.00	120.00	Open	-26.46	2256.91	2256.93	0.02	0.03	
P-4700	1021.00	8.00	120.00	Open	2.56	2256.95	2256.95	0.00	0.00	
P-4710	562.00	8.00	120.00	Open	1.35	2256.95	2256.95	0.00	0.00	
P-4720	445.00	8.00	120.00	Open	4.48	2256.95	2256.95	0.00	0.00	
P-4730	402.00	8.00	120.00	Open	0.97	2256.95	2256.95	0.00	0.00	
P-4740	524.00	8.00	120.00	Open	5.45	2256.95	2256.95	0.00	0.00	
P-4750	1136.00	8.00	120.00	Open	8.53	2256.96	2256.95	0.00	0.00	
P-4760	353.00	8.00	120.00	Open	-96.17	2256.86	2256.96	0.10	0.28	
P-4780	376.00	8.00	120.00	Open	-6.59	2262.52	2262.52	0.00	0.00	
P-4790	369.00	8.00	120.00	Open	-4.47	2262.52	2262.52	0.00	0.00	
P-4800	784.00	8.00	120.00	Open	-4.09	2262.52	2262.52	0.00	0.00	
P-4820	225.00	8.00	120.00	Open	27.00	2262.53	2262.53	0.01	0.03	
P-4830	157.00	8.00	120.00	Open	0.00	2262.53	2262.53	0.00	0.00	
P-4840	111.00	8.00	120.00	Open	15.11	2262.53	2262.53	0.00	0.01	
P-4850	352.00	8.00	120.00	Open	-11.88	2262.53	2262.54	0.00	0.01	
P-4870	77.00	8.00	120.00	Open	0.00	2262.39	2262.39	0.00	0.00	
P-4880	39.00	8.00	120.00	Open	112.16	2262.80	2262.79	0.01	0.37	
P-4890	894.00	8.00	120.00	Open	112.16	2263.13	2262.80	0.33	0.37	
P-4900	556.00	8.00	120.00	Open	-79.59	2263.58	2263.69	0.11	0.20	
P-4910	445.00	8.00	120.00	Open	-70.45	2263.51	2263.58	0.07	0.16	
P-4920	146.00	8.00	120.00	Open	-67.77	2263.49	2263.51	0.02	0.14	
P-4930	701.00	8.00	120.00	Open	-67.00	2263.39	2263.49	0.10	0.14	
P-4940	1221.00	8.00	120.00	Open	-74.05	2263.40	2263.61	0.21	0.17	
P-4950	74.00	8.00	120.00	Open	284.07	2265.04	2264.89	0.15	2.06	
P-4960	891.00	8.00	120.00	Open	285.36	2266.89	2265.04	1.85	2.08	
P-4970	724.00	8.00	120.00	Open	288.63	2268.43	2266.89	1.54	2.12	
P-4990a	484.00	8.00	120.00	Open	128.06	2266.15	2265.92	0.23	0.47	
P-4990b	226.00	8.00	120.00	Open	128.05	2265.92	2265.82	0.11	0.47	
P-4995	884.00	8.00	120.00	Open	-46.85	2265.75	2265.82	0.06	0.07	
P-5000	398.00	8.00	120.00	Open	297.69	2267.04	2266.15	0.89	2.25	
P-5005	42.00	8.00	120.00	Open	-72.65	2263.53	2263.53	0.01	0.17	
P-5010	562.00	8.00	120.00	Open	5.88	2268.31	2268.30	0.00	0.00	
P-5020	477.00	8.00	120.00	Open	2.31	2268.76	2268.76	0.00	0.00	
P-5030	596.00	8.00	120.00	Open	2.09	2268.76	2268.76	0.00	0.00	
P-5040	1203.00	8.00	120.00	Open	1.13	2268.76	2268.76	0.00	0.00	
P-5050	174.00	8.00	120.00	Open	139.58	2268.77	2268.67	0.10	0.55	
P-5060	1283.00	8.00	120.00	Open	-140.73	2268.77	2269.49	0.72	0.56	
P-5170	159.00	8.00	120.00	Open	54.74	2256.07	2256.06	0.02	0.10	
P-5260	173.00	8.00	120.00	Open	-227.80	2264.91	2265.15	0.24	1.37	
P-5270	616.00	8.00	120.00	Open	-227.22	2264.08	2264.91	0.84	1.36	
P-5280	483.00	8.00	120.00	Open	46.42	2263.41	2263.38	0.03	0.07	
P-5300	472.00	8.00	120.00	Open	20.54	2263.36	2263.35	0.01	0.02	
P-5305	475.00	8.00	120.00	Open	-11.79	2263.35	2263.35	0.00	0.01	
P-5310	535.00	8.00	120.00	Open	-76.16	2263.16	2263.25	0.10	0.18	
P-5320	924.00	8.00	120.00	Open	-75.01	2262.99	2263.16	0.16	0.17	
P-5330	172.00	8.00	120.00	Open	0.00	2263.36	2263.36	0.00	0.00	
P-5340	371.00	8.00	120.00	Open	0.00	2265.94	2265.94	0.00	0.00	
P-5350	167.00	8.00	120.00	Open	40.20	2267.29	2267.28	0.01	0.05	
P-5360	90.00	8.00	120.00	Open	-311.87	2267.06	2267.28	0.22	2.45	
P-5370	380.00	8.00	120.00	Open	-272.05	2267.28	2268.00	0.72	1.90	
P-5380	1372.00	8.00	120.00	Open	0.00	2268.00	2268.00	0.00	0.00	
P-5390	1052.00	8.00	120.00	Open	273.83	2270.03	2268.00	2.02	1.92	
P-5400	559.00	8.00	90.00	Open	-275.55	2270.03	2271.88	1.85	3.32	
P-5420	392.00	8.00	120.00	Open	72.02	2265.29	2265.23	0.06	0.16	
P-5430	748.00	8.00	120.00	Open	-74.13	2265.29	2265.42	0.13	0.17	
P-5450	19.00	8.00	90.00	Open	-69.91	2265.22	2265.23	0.01	0.27	
P-5500	505.00	8.00	90.00	Open	-67.02	2265.10	2265.22	0.12	0.24	
P-5510	836.00	8.00	120.00	Open	67.34	2265.10	2264.98	0.12	0.14	
P-5520	503.00	8.00	120.00	Open	0.99	2264.98	2264.98	0.00	0.00	
P-5530	332.00	8.00	120.00	Open	65.20	2264.98	2264.94	0.04	0.14	
P-5540	244.00	8.00	90.00	Open	2.19	2265.10	2265.10	0.00	0.00	
P-5550	426.00	8.00	90.00	Open	5.45	2265.10	2265.10	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)	
P-5560	514.00	8.00	120.00	Open	258.01	2265.99	2265.10	0.89	1.72
P-5570	153.00	8.00	120.00	Open	259.17	2266.26	2265.99	0.27	1.74
P-5580	364.00	8.00	90.00	Open	-178.85	2264.56	2265.10	0.54	1.49
P-5590	18.00	8.00	120.00	Open	-85.36	2264.56	2264.56	0.00	0.22
P-5600	190.00	8.00	90.00	Open	-82.82	2264.49	2264.56	0.07	0.36
P-5620	325.00	8.00	120.00	Open	-86.72	2264.77	2264.84	0.07	0.23
P-5630	730.00	8.00	120.00	Open	203.56	2261.73	2260.91	0.81	1.11
P-5640	465.00	8.00	120.00	Open	-349.87	2257.74	2259.15	1.41	3.03
P-5645	582.00	8.00	120.00	Open	350.26	2260.91	2259.15	1.77	3.04
P-5650	179.00	8.00	120.00	Open	46.24	2256.06	2256.04	0.01	0.07
P-5660	126.00	8.00	120.00	Open	0.00	2257.74	2257.74	0.00	0.00
P-5670	15.00	8.00	120.00	Open	-349.87	2257.69	2257.74	0.05	3.03
P-5680	35.00	8.00	120.00	Open	0.00	2257.69	2257.69	0.00	0.00
P-5690	84.00	8.00	120.00	Open	-348.91	2257.44	2257.69	0.25	3.01
P-5700	179.00	8.00	120.00	Open	-347.96	2256.90	2257.44	0.54	3.00
P-5710	884.00	8.00	120.00	Open	0.95	2257.44	2257.44	0.00	0.00
P-5720	375.00	8.00	120.00	Open	-147.65	2260.91	2261.14	0.23	0.61
P-5730	47.00	8.00	120.00	Open	-0.39	2261.14	2261.14	0.00	0.00
P-5740	571.00	8.00	120.00	Open	-149.00	2261.14	2261.50	0.36	0.62
P-5750	1054.00	8.00	120.00	Open	96.06	2261.79	2261.50	0.29	0.28
P-5760	51.00	8.00	120.00	Open	-210.23	2256.75	2256.81	0.06	1.18
P-5770	386.00	8.00	120.00	Open	33.49	2256.04	2256.03	0.02	0.04
P-5780	447.00	8.00	120.00	Open	-55.06	2261.50	2261.54	0.04	0.10
P-5790	185.00	8.00	120.00	Open	330.20	2264.38	2263.88	0.50	2.72
P-5800	184.00	8.00	120.00	Open	286.40	2263.88	2263.49	0.38	2.09
P-5810	21.00	8.00	120.00	Open	215.47	2263.49	2263.47	0.03	1.23
P-5820	593.00	8.00	120.00	Open	100.35	2263.47	2263.29	0.18	0.30
P-5830	153.00	8.00	120.00	Open	54.69	2263.29	2263.28	0.01	0.10
P-5840	215.00	8.00	120.00	Open	52.96	2263.28	2263.26	0.02	0.09
P-5845	874.00	8.00	120.00	Open	51.42	2263.26	2263.18	0.08	0.09
P-5850	256.00	8.00	120.00	Open	57.06	2256.85	2256.82	0.03	0.11
P-5860	35.00	8.00	120.00	Open	1.16	2263.28	2263.28	0.00	0.00
P-5870	249.00	8.00	120.00	Open	0.00	2263.28	2263.28	0.00	0.00
P-5880	400.00	8.00	120.00	Open	-114.17	2263.32	2263.47	0.15	0.38
P-5890	622.00	8.00	120.00	Open	85.86	2263.32	2263.18	0.14	0.22
P-5900	868.00	8.00	120.00	Open	-69.38	2263.36	2263.49	0.13	0.15
P-5910	449.00	8.00	120.00	Open	27.56	2263.33	2263.32	0.01	0.03
P-5920	432.00	8.00	120.00	Open	29.89	2263.34	2263.33	0.01	0.03
P-5930	414.00	8.00	120.00	Open	-38.32	2263.34	2263.36	0.02	0.05
P-5940	431.00	8.00	120.00	Open	0.05	2263.34	2263.34	0.00	0.00
P-5950	390.00	8.00	120.00	Open	-0.13	2263.34	2263.34	0.00	0.00
P-5960	431.00	8.00	120.00	Open	-28.76	2263.35	2263.36	0.01	0.03
P-5970	21.00	8.00	120.00	Open	-25.91	2263.35	2263.35	0.00	0.02
P-5980	368.00	8.00	120.00	Open	-218.71	2263.35	2263.82	0.47	1.27
P-5990	426.00	8.00	120.00	Open	-244.61	2262.68	2263.35	0.67	1.56
P-6000	198.00	8.00	120.00	Open	-243.84	2262.38	2262.68	0.31	1.55
P-6010	292.00	8.00	120.00	Open	-243.41	2261.93	2262.38	0.45	1.55
P-6020	440.00	8.00	120.00	Open	-240.78	2261.26	2261.93	0.67	1.52
P-6030	18.00	8.00	120.00	Open	-189.75	2261.24	2261.26	0.02	0.98
P-6040	173.00	8.00	120.00	Open	-511.07	2260.18	2261.24	1.06	6.11
P-6050	79.00	8.00	120.00	Open	-509.48	2259.70	2260.18	0.48	6.08
P-6070	240.00	8.00	120.00	Open	-504.16	2256.74	2258.17	1.43	5.96
P-6080	333.00	8.00	120.00	Open	324.47	2262.12	2261.24	0.88	2.63
P-6090	163.00	8.00	120.00	Open	325.61	2262.55	2262.12	0.43	2.65
P-6100	902.00	8.00	120.00	Open	200.60	2263.53	2262.55	0.98	1.08
P-6110	476.00	8.00	120.00	Open	127.90	2262.77	2262.55	0.22	0.47
P-6120	1066.00	8.00	120.00	Open	128.86	2263.28	2262.77	0.51	0.48
P-6130	168.00	8.00	120.00	Open	99.96	2263.33	2263.28	0.05	0.30
P-6140	289.00	8.00	120.00	Open	50.53	2256.82	2256.80	0.02	0.08
P-6150	131.00	8.00	120.00	Open	106.29	2263.38	2263.33	0.04	0.33
P-6160	149.00	8.00	120.00	Open	-31.28	2263.28	2263.29	0.01	0.04
P-6170	81.00	8.00	120.00	Open	-31.47	2263.29	2263.29	0.00	0.03
P-6180	41.00	8.00	120.00	Open	-31.47	2263.29	2263.29	0.00	0.04
P-6190	74.00	8.00	120.00	Open	-31.47	2263.29	2263.29	0.00	0.04

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-6200	193.00	8.00	120.00	Open	0.00	2263.29	2263.29	0.00	0.00	
P-6210	176.00	8.00	120.00	Open	41.95	2263.30	2263.29	0.01	0.06	
P-6220	30.00	8.00	120.00	Open	0.00	2263.29	2263.29	0.00	0.00	
P-6230	600.00	8.00	120.00	Open	19.88	2256.79	2256.78	0.01	0.02	
P-6240	293.00	8.00	120.00	Open	3.39	2256.80	2256.80	0.00	0.00	
P-6250	351.00	8.00	120.00	Open	92.47	2264.35	2264.26	0.09	0.26	
P-6260	257.00	8.00	120.00	Open	82.13	2264.19	2264.14	0.05	0.21	
P-6270	171.00	8.00	120.00	Open	84.10	2264.23	2264.19	0.04	0.22	
P-6290	207.00	8.00	120.00	Open	-0.56	2264.19	2264.19	0.00	0.00	
P-6300	191.00	8.00	120.00	Open	-0.58	2264.19	2264.19	0.00	0.00	
P-6310	27.00	8.00	120.00	Open	0.00	2264.23	2264.23	0.00	0.00	
P-6440	719.00	8.00	90.00	Open	-73.89	2263.93	2264.14	0.21	0.29	
P-6450	609.00	8.00	120.00	Open	102.81	2263.93	2263.74	0.19	0.31	
P-6460	332.00	8.00	120.00	Open	90.61	2263.74	2263.66	0.08	0.25	
P-6470	328.00	8.00	120.00	Open	11.44	2263.74	2263.74	0.00	0.01	
P-6480	332.00	8.00	120.00	Open	-22.97	2263.74	2263.75	0.01	0.02	
P-6490	107.00	8.00	90.00	Open	-94.32	2263.89	2263.93	0.05	0.46	
P-6500	208.00	8.00	90.00	Open	-83.60	2263.81	2263.89	0.08	0.36	
P-6510	313.00	8.00	90.00	Open	-38.65	2263.78	2263.81	0.03	0.09	
P-6520	378.00	8.00	120.00	Open	10.14	2263.89	2263.88	0.00	0.00	
P-6530	236.00	8.00	120.00	Open	5.13	2263.88	2263.88	0.00	0.00	
P-6540	323.00	8.00	90.00	Open	-37.53	2263.76	2263.78	0.03	0.08	
P-6550	342.00	8.00	90.00	Open	-61.03	2263.68	2263.75	0.07	0.20	
P-6560	291.00	8.00	90.00	Open	62.87	2263.68	2263.62	0.06	0.21	
P-6570	136.00	8.00	90.00	Open	61.33	2263.62	2263.59	0.03	0.20	
P-6580	478.00	8.00	120.00	Open	75.29	2263.59	2263.50	0.08	0.18	
P-6590	19.00	8.00	90.00	Open	-80.69	2263.75	2263.76	0.01	0.35	
P-6600	452.00	8.00	120.00	Open	-46.59	2263.76	2263.79	0.03	0.07	
P-6610	185.00	8.00	120.00	Open	-42.56	2263.79	2263.80	0.01	0.06	
P-6620	190.00	8.00	120.00	Open	-58.54	2263.80	2263.82	0.02	0.11	
P-6630	170.00	8.00	120.00	Open	-23.84	2263.82	2263.82	0.00	0.02	
P-6640	548.00	8.00	120.00	Open	4.27	2263.68	2263.68	0.00	0.00	
P-6650	659.00	8.00	120.00	Open	-51.22	2263.62	2263.68	0.06	0.09	
P-6660	807.00	8.00	120.00	Open	-64.17	2263.68	2263.79	0.11	0.13	
P-6670	377.00	8.00	120.00	Open	-72.49	2263.79	2263.85	0.06	0.16	
P-6680	100.00	8.00	120.00	Open	9.80	2263.87	2263.87	0.00	0.00	
P-6690	186.00	8.00	120.00	Open	6.06	2263.87	2263.87	0.00	0.00	
P-6700	82.00	8.00	120.00	Open	3.75	2263.87	2263.87	0.00	0.00	
P-6710	658.00	8.00	120.00	Open	-14.80	2264.07	2264.07	0.01	0.01	
P-6750	835.00	8.00	120.00	Open	-12.68	2263.68	2263.69	0.01	0.01	
P-6780	243.00	8.00	120.00	Open	34.09	2263.85	2263.84	0.01	0.04	
P-6790	598.00	8.00	120.00	Open	57.72	2263.92	2263.85	0.06	0.11	
P-6800	325.00	8.00	120.00	Open	61.28	2263.95	2263.92	0.04	0.12	
P-6810	360.00	8.00	120.00	Open	71.85	2264.01	2263.95	0.06	0.16	
P-6820	458.00	8.00	120.00	Open	31.00	2264.03	2264.01	0.02	0.03	
P-6830	32.00	8.00	120.00	Open	42.01	2264.01	2264.01	0.00	0.06	
P-6840	27.00	8.00	120.00	Open	47.78	2264.02	2264.01	0.00	0.07	
P-6880	1192.00	8.00	120.00	Open	22.29	2256.80	2256.78	0.02	0.02	
P-7040	437.00	8.00	120.00	Open	19.41	2256.78	2256.77	0.01	0.01	
P-7090	450.00	8.00	120.00	Open	213.90	2266.97	2266.42	0.55	1.22	
P-7110	199.00	8.00	120.00	Open	65.38	2266.40	2266.37	0.03	0.13	
P-7120	157.00	8.00	120.00	Open	68.48	2266.42	2266.40	0.02	0.15	
P-7130	257.00	8.00	120.00	Open	24.42	2268.41	2268.40	0.01	0.02	
P-7140	371.00	8.00	120.00	Open	8.61	2268.40	2268.40	0.00	0.00	
P-7150	432.00	8.00	120.00	Open	6.38	2268.40	2268.40	0.00	0.00	
P-7160	38.00	8.00	120.00	Open	0.00	2268.40	2268.40	0.00	0.00	
P-7170	31.00	8.00	120.00	Open	0.27	2268.40	2268.40	0.00	0.00	
P-7180	194.00	8.00	120.00	Open	-24.32	2272.54	2272.54	0.00	0.02	
P-7190	1098.00	8.00	120.00	Open	-20.47	2272.52	2272.54	0.02	0.02	
P-7200	578.00	8.00	120.00	Open	-14.52	2272.52	2272.52	0.00	0.01	
P-7210	95.00	8.00	120.00	Open	-12.79	2272.52	2272.52	0.00	0.01	
P-7220	419.00	8.00	120.00	Open	-3.98	2272.52	2272.52	0.00	0.00	
P-7230	151.00	8.00	120.00	Open	-6.67	2272.52	2272.52	0.00	0.00	
P-7240	451.00	8.00	120.00	Open	2.11	2272.49	2272.49	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-7250	823.00	8.00	120.00	Open	13.10	2272.49	2272.49	0.01	0.01	
P-7260	155.00	8.00	120.00	Open	15.81	2272.49	2272.49	0.00	0.01	
P-7270	309.00	8.00	120.00	Open	4.81	2272.49	2272.49	0.00	0.00	
P-7280	766.00	8.00	120.00	Open	2.50	2272.49	2272.49	0.00	0.00	
P-7290	108.00	8.00	120.00	Open	0.00	2272.49	2272.49	0.00	0.00	
P-7300	303.00	8.00	120.00	Open	1.94	2272.49	2272.49	0.00	0.00	
P-7310	758.00	8.00	120.00	Open	-2.11	2272.49	2272.49	0.00	0.00	
P-7320	499.00	8.00	120.00	Open	-1.71	2272.49	2272.49	0.00	0.00	
P-7330	510.00	8.00	120.00	Open	-0.38	2272.49	2272.49	0.00	0.00	
P-7340	189.00	8.00	120.00	Open	-2.09	2272.49	2272.49	0.00	0.00	
P-7350	1151.00	8.00	120.00	Open	8.26	2272.49	2272.49	0.00	0.00	
P-7360	408.00	8.00	120.00	Open	3.27	2272.49	2272.49	0.00	0.00	
P-7370	138.00	8.00	120.00	Open	0.00	2272.49	2272.49	0.00	0.00	
P-7380	113.00	8.00	120.00	Open	-0.96	2272.52	2272.52	0.00	0.00	
P-7390	516.00	8.00	120.00	Open	48.04	2272.53	2272.49	0.04	0.08	
P-7400	522.00	8.00	120.00	Open	-19.10	2272.48	2272.49	0.01	0.01	
P-7410	51.00	8.00	120.00	Open	0.00	2272.48	2272.48	0.00	0.00	
P-7420	411.00	8.00	120.00	Open	27.01	2272.49	2272.48	0.01	0.03	
P-7430	965.00	8.00	120.00	Open	2.11	2272.53	2272.53	0.00	0.00	
P-7440	136.00	8.00	120.00	Open	0.38	2272.53	2272.53	0.00	0.00	
P-7490	767.00	8.00	120.00	Open	0.00	2262.88	2262.88	0.00	0.00	
P-7500	195.00	8.00	120.00	Open	0.00	2262.88	2262.88	0.00	0.00	
P-7510	500.00	8.00	120.00	Open	0.00	2262.88	2262.88	0.00	0.00	
P-7610	700.00	8.00	120.00	Open	271.58	2268.49	2267.16	1.33	1.89	
P-7620	229.00	8.00	120.00	Open	267.95	2267.16	2266.74	0.42	1.85	
P-7630	271.00	8.00	120.00	Open	3.38	2266.74	2266.74	0.00	0.00	
P-7640	294.00	8.00	120.00	Open	0.00	2267.16	2267.16	0.00	0.00	
P-7650	80.00	8.00	120.00	Open	0.00	2267.11	2267.11	0.00	0.00	
P-7660	757.00	8.00	120.00	Open	110.86	2265.19	2264.92	0.27	0.36	
P-7670	44.00	8.00	120.00	Open	91.47	2264.92	2264.91	0.01	0.25	
P-7680	130.00	8.00	120.00	Open	98.56	2264.91	2264.87	0.04	0.29	
P-7690	311.00	8.00	120.00	Open	3.08	2264.87	2264.87	0.00	0.00	
P-7700	217.00	8.00	120.00	Open	-0.48	2264.87	2264.87	0.00	0.00	
P-7710	75.00	8.00	120.00	Open	0.00	2264.87	2264.87	0.00	0.00	
P-7720	924.00	8.00	120.00	Open	-7.09	2264.91	2264.91	0.00	0.00	
P-7730	955.00	8.00	120.00	Open	15.55	2264.92	2264.91	0.01	0.01	
P-7740	101.00	8.00	120.00	Open	0.00	2264.91	2264.91	0.00	0.00	
P-7750	660.00	8.00	120.00	Open	90.62	2264.87	2264.71	0.16	0.25	
P-7760	1011.00	8.00	120.00	Open	132.81	2265.19	2264.68	0.51	0.50	
P-7780	45.00	8.00	120.00	Open	0.00	2264.71	2264.71	0.00	0.00	
P-7790	106.00	8.00	120.00	Open	-85.75	2264.68	2264.71	0.02	0.22	
P-7800	642.00	8.00	120.00	Open	-217.22	2263.88	2264.68	0.80	1.25	
P-7810	1001.00	8.00	120.00	Open	13.26	2256.77	2256.76	0.01	0.01	
P-7820	377.00	8.00	120.00	Open	-151.99	2263.63	2263.88	0.24	0.65	
P-7830	335.00	8.00	120.00	Open	63.88	2263.88	2263.83	0.04	0.13	
P-7840	302.00	8.00	120.00	Open	0.58	2263.83	2263.83	0.00	0.00	
P-7850	1456.00	8.00	120.00	Open	-61.57	2263.66	2263.83	0.18	0.12	
P-7870	1132.00	8.00	120.00	Open	11.66	2263.64	2263.63	0.01	0.01	
P-7880	1071.00	8.00	120.00	Open	13.14	2263.65	2263.64	0.01	0.01	
P-7890	866.00	8.00	120.00	Open	2.55	2263.64	2263.64	0.00	0.00	
P-7910	611.00	8.00	120.00	Open	-104.57	2263.30	2263.49	0.20	0.32	
P-7920	121.00	8.00	120.00	Open	-100.13	2263.26	2263.30	0.04	0.30	
P-7930	218.00	8.00	120.00	Open	-97.46	2263.20	2263.26	0.06	0.28	
P-7940	56.00	8.00	120.00	Open	88.69	2263.47	2263.45	0.01	0.24	
P-7950	249.00	8.00	120.00	Open	65.93	2263.45	2263.42	0.03	0.14	
P-7960	398.00	8.00	120.00	Open	-0.66	2263.42	2263.42	0.00	0.00	
P-7970	82.00	8.00	120.00	Open	-0.66	2263.42	2263.42	0.00	0.00	
P-7980	99.00	8.00	120.00	Open	-20.02	2263.42	2263.42	0.00	0.01	
P-7990	586.00	8.00	120.00	Open	-20.02	2263.42	2263.43	0.01	0.02	
P-8000	1204.00	8.00	120.00	Open	-202.52	2263.44	2264.77	1.33	1.10	
P-8005	435.00	8.00	120.00	Open	2.88	2256.76	2256.76	0.00	0.00	
P-8010	28.00	8.00	120.00	Open	-122.21	2263.43	2263.44	0.01	0.43	
P-8015	578.00	8.00	120.00	Open	1.35	2256.76	2256.76	0.00	0.00	
P-8020	856.00	8.00	120.00	Open	-61.51	2263.32	2263.43	0.10	0.12	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-8025	308.00	8.00	120.00	Open	0.38	2256.76	2256.76	0.00	0.00	
P-8030	53.00	8.00	120.00	Open	107.99	2265.37	2265.35	0.02	0.35	
P-8035	256.00	8.00	120.00	Open	-8.35	2256.79	2256.79	0.00	0.00	
P-8040	84.00	8.00	120.00	Open	156.43	2263.00	2262.95	0.06	0.68	
P-8050	959.00	8.00	120.00	Open	71.66	2262.95	2262.79	0.15	0.16	
P-8055	247.00	8.00	120.00	Open	-63.26	2262.76	2262.79	0.03	0.13	
P-8060	1159.00	8.00	120.00	Open	-71.53	2262.76	2262.95	0.19	0.16	
P-8065	851.00	8.00	120.00	Open	-23.63	2263.82	2263.83	0.02	0.02	
P-8070	114.00	8.00	120.00	Open	-129.63	2262.71	2262.76	0.05	0.48	
P-8080	471.00	8.00	120.00	Open	0.00	2262.66	2262.66	0.00	0.00	
P-8090	771.00	8.00	120.00	Open	107.66	2262.94	2262.67	0.26	0.34	
P-8100	41.00	8.00	120.00	Open	105.07	2262.95	2262.94	0.01	0.33	
P-8110	148.00	8.00	120.00	Open	-126.81	2263.40	2263.47	0.07	0.46	
P-8120	665.00	8.00	120.00	Open	-125.65	2263.10	2263.40	0.30	0.45	
P-8130	401.00	8.00	120.00	Open	107.13	2263.10	2262.97	0.14	0.34	
P-8140	973.00	8.00	120.00	Open	76.76	2262.97	2262.79	0.18	0.18	
P-8145	243.00	8.00	120.00	Open	0.00	2256.86	2256.86	0.00	0.00	
P-8155	509.00	8.00	120.00	Open	0.00	2256.86	2256.86	0.00	0.00	
P-8160	622.00	8.00	120.00	Open	25.75	2262.61	2262.60	0.01	0.02	
P-8170	306.00	8.00	120.00	Open	10.38	2256.76	2256.76	0.00	0.00	
P-8180	291.00	8.00	120.00	Open	0.58	2256.76	2256.76	0.00	0.00	
P-8190	603.00	8.00	120.00	Open	1.35	2256.76	2256.76	0.00	0.00	
P-8200	375.00	8.00	120.00	Open	1.92	2256.76	2256.76	0.00	0.00	
P-8210	529.00	8.00	120.00	Open	59.92	2262.59	2262.53	0.06	0.12	
P-8220	137.00	8.00	120.00	Open	68.25	2262.53	2262.51	0.02	0.15	
P-8230	743.00	8.00	120.00	Open	51.88	2262.51	2262.45	0.07	0.09	
P-8240	353.00	8.00	120.00	Open	80.33	2262.45	2262.38	0.07	0.20	
P-8250	1126.00	8.00	120.00	Open	-31.91	2262.45	2262.49	0.04	0.04	
P-8260	493.00	8.00	120.00	Open	1.35	2262.49	2262.49	0.00	0.00	
P-8270	403.00	8.00	120.00	Open	36.33	2262.50	2262.49	0.02	0.05	
P-8280	839.00	8.00	120.00	Open	14.26	2262.51	2262.50	0.01	0.01	
P-8290	639.00	8.00	120.00	Open	24.38	2262.52	2262.50	0.01	0.02	
P-8300	502.00	8.00	120.00	Open	-21.37	2262.52	2262.53	0.01	0.02	
P-8310	345.00	8.00	120.00	Open	-23.10	2262.53	2262.53	0.01	0.02	
P-8320	311.00	8.00	120.00	Open	4.16	2262.52	2262.52	0.00	0.00	
P-8330	614.00	8.00	120.00	Open	4.50	2261.84	2261.84	0.00	0.00	
P-8340	439.00	8.00	120.00	Open	38.10	2261.59	2261.57	0.02	0.05	
P-8350	98.00	8.00	120.00	Open	32.94	2261.57	2261.57	0.00	0.04	
P-8360	50.00	8.00	120.00	Open	24.28	2261.57	2261.57	0.00	0.02	
P-8370	29.00	8.00	120.00	Open	24.28	2261.57	2261.57	0.00	0.02	
P-8380	899.00	8.00	120.00	Open	0.00	2261.57	2261.57	0.00	0.00	
P-8400	367.00	8.00	120.00	Open	0.00	2261.55	2261.55	0.00	0.00	
P-8410	38.00	8.00	120.00	Open	4.69	2261.63	2261.63	0.00	0.00	
P-8420	275.00	8.00	120.00	Open	0.19	2256.76	2256.76	0.00	0.00	
P-8430	420.00	8.00	120.00	Open	5.96	2256.76	2256.76	0.00	0.00	
P-8450	540.00	8.00	120.00	Open	12.20	2261.62	2261.61	0.00	0.01	
P-8460	270.00	8.00	120.00	Open	8.95	2261.61	2261.61	0.00	0.00	
P-8470	235.00	8.00	120.00	Open	1.35	2261.61	2261.61	0.00	0.00	
P-8480	323.00	8.00	120.00	Open	6.84	2261.61	2261.61	0.00	0.00	
P-8490	293.00	8.00	120.00	Open	4.15	2261.61	2261.61	0.00	0.00	
P-8500	382.00	8.00	120.00	Open	1.37	2261.61	2261.61	0.00	0.00	
P-8510	518.00	8.00	120.00	Open	0.96	2256.76	2256.76	0.00	0.00	
P-8520	255.00	8.00	120.00	Open	2.11	2261.61	2261.61	0.00	0.00	
P-8530	340.00	8.00	120.00	Open	1.15	2261.61	2261.61	0.00	0.00	
P-8540	436.00	8.00	120.00	Open	1.62	2261.61	2261.61	0.00	0.00	
P-8550	287.00	8.00	120.00	Open	0.66	2261.61	2261.61	0.00	0.00	
P-8560	549.00	8.00	120.00	Open	0.58	2256.76	2256.76	0.00	0.00	
P-8570	334.00	8.00	120.00	Open	0.94	2261.61	2261.61	0.00	0.00	
P-8580	36.00	8.00	120.00	Open	0.36	2261.61	2261.61	0.00	0.00	
P-8590	270.00	8.00	120.00	Open	1.15	2261.61	2261.61	0.00	0.00	
P-8600	458.00	8.00	120.00	Open	1.24	2261.61	2261.61	0.00	0.00	
P-8610	685.00	8.00	120.00	Open	1.62	2261.61	2261.61	0.00	0.00	
P-8620	311.00	8.00	120.00	Open	6.62	2261.61	2261.61	0.00	0.00	
P-8630	233.00	8.00	120.00	Open	11.43	2261.62	2261.61	0.00	0.01	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-8640	83.00	8.00	120.00	Open	4.43	2261.61	2261.61	0.00	0.00	
P-8660	1206.00	8.00	120.00	Closed	0.00	2261.54	2261.69	0.00	0.00	
P-8670	373.00	8.00	120.00	Open	-4.35	2261.53	2261.53	0.00	0.00	
P-8680	474.00	8.00	120.00	Closed	0.00	2261.53	2261.53	0.00	0.00	
P-8690	166.00	8.00	120.00	Open	3.39	2261.53	2261.53	0.00	0.00	
P-8700	659.00	8.00	120.00	Open	1.23	2261.54	2261.54	0.00	0.00	
P-8710	1776.00	8.00	120.00	Open	-12.61	2262.00	2262.01	0.01	0.01	
P-8720	346.00	8.00	120.00	Open	-12.61	2262.00	2262.00	0.00	0.01	
P-8730	1958.00	8.00	120.00	Open	-10.88	2261.99	2262.00	0.01	0.00	
P-8740	1148.00	8.00	120.00	Open	15.04	2261.93	2261.92	0.01	0.01	
P-8750	72.00	8.00	120.00	Open	11.79	2261.61	2261.61	0.00	0.01	
P-8770	121.00	8.00	120.00	Open	106.18	2257.89	2257.85	0.04	0.33	
P-8780	135.00	8.00	120.00	Open	103.22	2257.85	2257.80	0.04	0.31	
P-8790	150.00	8.00	120.00	Open	102.36	2257.80	2257.76	0.05	0.31	
P-8800	179.00	8.00	120.00	Open	96.87	2257.76	2257.71	0.05	0.28	
P-8810	211.00	8.00	120.00	Open	93.25	2257.71	2257.65	0.06	0.26	
P-8820	68.00	8.00	120.00	Open	89.60	2257.65	2257.63	0.02	0.24	
P-8830	54.00	8.00	120.00	Open	87.85	2257.63	2257.62	0.01	0.24	
P-8840	67.00	8.00	120.00	Open	86.31	2257.62	2257.61	0.02	0.23	
P-8850	80.00	8.00	120.00	Open	83.02	2257.61	2257.59	0.02	0.21	
P-8860	101.00	8.00	120.00	Open	81.33	2257.59	2257.57	0.02	0.20	
P-8870	391.00	8.00	120.00	Open	78.59	2257.57	2257.49	0.07	0.19	
P-8880	301.00	8.00	120.00	Open	1.76	2257.63	2257.63	0.00	0.00	
P-8890	147.00	8.00	120.00	Open	3.63	2257.71	2257.71	0.00	0.00	
P-8900	273.00	8.00	120.00	Open	1.07	2257.85	2257.85	0.00	0.00	
P-8910	67.00	8.00	120.00	Open	290.25	2257.29	2257.15	0.14	2.14	
P-8920	800.00	8.00	120.00	Open	-187.63	2256.38	2257.15	0.76	0.96	
P-8930	68.00	8.00	120.00	Open	-182.79	2256.32	2256.38	0.06	0.91	
P-8940	96.00	8.00	120.00	Open	4.85	2256.38	2256.38	0.00	0.00	
P-8950	261.00	8.00	120.00	Open	-172.05	2256.11	2256.32	0.21	0.81	
P-8960	626.00	8.00	120.00	Open	-102.42	2255.92	2256.11	0.19	0.31	
P-8970	203.00	8.00	120.00	Open	-59.54	2255.89	2255.92	0.02	0.11	
P-8980	105.00	8.00	120.00	Open	69.62	2256.11	2256.09	0.02	0.15	
P-8990	184.00	8.00	120.00	Open	61.12	2256.09	2256.07	0.02	0.12	
P-9000	166.00	6.00	120.00	Open	3.51	2257.04	2257.04	0.00	0.00	
P-9005	831.00	6.00	110.00	Open	-2.92	2257.66	2257.66	0.00	0.00	
P-9030	78.00	6.00	120.00	Open	-4.13	2262.69	2262.69	0.00	0.00	
P-9045	371.00	6.00	110.00	Open	4.24	2256.98	2256.97	0.00	0.00	
P-9055	119.00	6.00	110.00	Open	2.83	2256.98	2256.98	0.00	0.00	
P-9060	62.00	6.00	120.00	Open	0.00	2256.94	2256.94	0.00	0.00	
P-9065	48.00	6.00	120.00	Open	0.00	2256.93	2256.93	0.00	0.00	
P-9070	80.00	6.00	120.00	Open	0.00	2256.93	2256.93	0.00	0.00	
P-9075	62.00	6.00	120.00	Open	0.00	2256.93	2256.93	0.00	0.00	
P-9080	45.00	6.00	120.00	Open	0.00	2256.92	2256.92	0.00	0.00	
P-9085	861.00	6.00	120.00	Open	1.54	2256.95	2256.95	0.00	0.00	
P-9090	329.00	6.00	120.00	Open	47.12	2262.77	2262.67	0.10	0.30	
P-9095	870.00	6.00	120.00	Open	31.62	2262.67	2262.54	0.12	0.14	
P-9100	1524.00	6.00	115.00	Open	8.53	2262.54	2262.52	0.02	0.01	
P-9105	645.00	6.00	115.00	Open	0.00	2262.52	2262.52	0.00	0.00	
P-9110	649.00	6.00	120.00	Open	-1.55	2262.52	2262.52	0.00	0.00	
P-9115	164.00	6.00	120.00	Open	-21.73	2262.53	2262.54	0.01	0.07	
P-9120	123.00	6.00	120.00	Open	-8.15	2262.53	2262.53	0.00	0.01	
P-9125	890.00	6.00	120.00	Open	6.52	2262.54	2262.53	0.01	0.01	
P-9130	533.00	6.00	120.00	Open	14.75	2262.67	2262.65	0.02	0.03	
P-9140	61.00	6.00	120.00	Open	15.11	2262.54	2262.53	0.00	0.04	
P-9145	53.00	6.00	120.00	Open	32.63	2262.66	2262.65	0.01	0.15	
P-9150	249.00	6.00	120.00	Open	0.00	2262.66	2262.66	0.00	0.00	
P-9155	207.00	6.00	120.00	Open	35.78	2262.69	2262.66	0.04	0.18	
P-9160	809.00	6.00	120.00	Open	39.66	2262.87	2262.69	0.18	0.22	
P-9165	138.00	6.00	120.00	Open	58.74	2262.93	2262.87	0.06	0.45	
P-9170	228.00	6.00	120.00	Open	125.39	2263.35	2262.93	0.42	1.84	
P-9175	296.00	6.00	120.00	Open	14.52	2262.87	2262.86	0.01	0.03	
P-9180	174.00	6.00	120.00	Open	-1.85	2262.69	2262.69	0.00	0.00	
P-9185	532.00	6.00	120.00	Open	6.68	2262.70	2262.69	0.00	0.01	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-9195	441.00	6.00	120.00	Open	-64.19	2262.70	2262.93	0.23	0.53	
P-9200	416.00	6.00	120.00	Open	-50.80	2262.55	2262.70	0.14	0.35	
P-9205	364.00	6.00	120.00	Open	-18.63	2262.54	2262.55	0.02	0.05	
P-9210	331.00	6.00	115.00	Open	-22.11	2263.35	2263.38	0.03	0.08	
P-9400	542.00	6.00	120.00	Open	-95.73	2263.61	2264.22	0.60	1.12	
P-9405	434.00	6.00	120.00	Open	-20.56	2263.58	2263.61	0.03	0.06	
P-9410	282.00	6.00	120.00	Open	-27.22	2263.55	2263.58	0.03	0.11	
P-9415a	164.00	6.00	115.00	Open	-56.51	2263.35	2263.43	0.07	0.45	
P-9415b	562.00	6.00	115.00	Open	-52.03	2263.13	2263.35	0.22	0.39	
P-9420	89.00	6.00	115.00	Open	60.13	2263.18	2263.13	0.05	0.51	
P-9435	300.00	6.00	115.00	Open	15.17	2263.27	2263.26	0.01	0.04	
P-9440	486.00	6.00	115.00	Open	-21.26	2263.27	2263.30	0.04	0.07	
P-9445	313.00	6.00	115.00	Open	2.69	2263.30	2263.30	0.00	0.00	
P-9450	285.00	6.00	115.00	Open	38.58	2263.41	2263.35	0.06	0.22	
P-9455	354.00	6.00	115.00	Open	-28.17	2263.30	2263.35	0.04	0.13	
P-9460	673.00	6.00	115.00	Open	85.96	2264.08	2263.41	0.67	0.99	
P-9465a	708.00	8.00	115.00	Open	168.17	2266.15	2265.55	0.60	0.84	
P-9465b	269.00	8.00	115.00	Open	228.57	2265.55	2265.15	0.40	1.49	
P-9470	347.00	6.00	115.00	Open	-137.98	2263.25	2264.08	0.82	2.38	
P-9475	320.00	6.00	115.00	Open	-60.66	2263.09	2263.25	0.17	0.52	
P-9480	62.00	6.00	115.00	Open	-106.93	2262.99	2263.09	0.09	1.48	
P-9485	325.00	6.00	115.00	Open	-180.40	2261.73	2262.99	1.27	3.90	
P-9490	96.00	6.00	115.00	Open	24.70	2261.73	2261.73	0.01	0.10	
P-9495	426.00	6.00	115.00	Open	29.12	2261.79	2261.73	0.06	0.13	
P-9500	666.00	6.00	115.00	Open	128.44	2263.18	2261.79	1.39	2.08	
P-9505	394.00	6.00	115.00	Open	44.31	2263.29	2263.18	0.11	0.29	
P-9510	1164.00	6.00	120.00	Open	70.06	2265.10	2264.38	0.73	0.63	
P-9515	404.00	6.00	120.00	Open	0.00	2263.33	2263.33	0.00	0.00	
P-9520	376.00	6.00	120.00	Open	0.00	2263.88	2263.88	0.00	0.00	
P-9525	878.00	6.00	120.00	Open	-42.07	2263.67	2263.88	0.21	0.24	
P-9530	87.00	6.00	120.00	Open	112.46	2263.50	2263.37	0.13	1.50	
P-9535	446.00	6.00	120.00	Open	-39.26	2263.57	2263.67	0.10	0.21	
P-9540	408.00	6.00	120.00	Open	-15.90	2263.55	2263.57	0.02	0.04	
P-9545	309.00	6.00	120.00	Open	0.77	2263.34	2263.34	0.00	0.00	
P-9550	568.00	6.00	120.00	Open	2.98	2256.79	2256.79	0.00	0.00	
P-9555	348.00	6.00	120.00	Open	-35.56	2256.79	2256.85	0.06	0.18	
P-9560	470.00	6.00	120.00	Open	9.14	2256.79	2256.78	0.01	0.01	
P-9565	183.00	6.00	120.00	Open	1.59	2260.18	2260.18	0.00	0.00	
P-9570	183.00	6.00	120.00	Open	0.00	2260.18	2260.18	0.00	0.00	
P-9575	377.00	6.00	120.00	Open	-82.48	2263.82	2264.14	0.32	0.85	
P-9580	609.00	6.00	120.00	Open	-7.43	2264.14	2264.14	0.01	0.01	
P-9585	190.00	6.00	90.00	Open	-81.32	2264.14	2264.41	0.27	1.41	
P-9590	387.00	6.00	120.00	Open	-86.72	2264.41	2264.77	0.36	0.93	
P-9595	311.00	6.00	120.00	Open	72.65	2263.74	2263.53	0.21	0.67	
P-9610	112.00	6.00	120.00	Open	0.19	2263.56	2263.56	0.00	0.00	
P-9615	167.00	6.00	120.00	Open	23.44	2263.37	2263.36	0.01	0.08	
P-9620	454.00	6.00	120.00	Open	17.80	2263.36	2263.34	0.02	0.05	
P-9625	169.00	6.00	120.00	Open	-46.14	2263.30	2263.35	0.05	0.29	
P-9630	325.00	6.00	120.00	Open	-38.03	2263.50	2263.57	0.07	0.20	
P-9635	397.00	6.00	90.00	Open	-17.97	2263.59	2263.62	0.03	0.09	
P-9640	201.00	6.00	90.00	Open	31.72	2263.62	2263.57	0.05	0.25	
P-9645	329.00	6.00	90.00	Open	26.03	2263.57	2263.52	0.06	0.17	
P-9650	916.00	6.00	120.00	Open	-2.50	2263.57	2263.57	0.00	0.00	
P-9655	491.00	6.00	90.00	Open	-23.92	2263.45	2263.52	0.07	0.15	
P-9660	621.00	6.00	90.00	Open	-7.24	2263.44	2263.45	0.01	0.02	
P-9675	63.00	6.00	120.00	Open	4.02	2263.79	2263.79	0.00	0.00	
P-9680	206.00	6.00	120.00	Open	7.01	2263.79	2263.79	0.00	0.01	
P-9685	105.00	6.00	120.00	Open	10.00	2263.79	2263.79	0.00	0.02	
P-9690	106.00	6.00	120.00	Open	15.97	2263.80	2263.79	0.00	0.04	
P-9695	80.00	6.00	120.00	Open	15.97	2263.80	2263.80	0.00	0.04	
P-9700	318.00	6.00	120.00	Open	18.89	2263.75	2263.73	0.02	0.06	
P-9705	295.00	6.00	120.00	Open	17.11	2263.73	2263.72	0.01	0.05	
P-9710	33.00	6.00	120.00	Open	8.76	2263.44	2263.44	0.00	0.01	
P-9715	47.00	6.00	120.00	Open	-5.71	2263.44	2263.44	0.00	0.01	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-9725	941.00	6.00	120.00	Open	40.50	2264.04	2263.83	0.21	0.23	
P-9730	364.00	8.00	120.00	Open	-115.53	2263.76	2263.90	0.14	0.39	
P-9735	365.00	8.00	120.00	Open	116.12	2264.04	2263.90	0.14	0.39	
P-9740	202.00	8.00	120.00	Open	-115.06	2263.68	2263.76	0.08	0.39	
P-9745	418.00	8.00	120.00	Open	-125.23	2263.49	2263.68	0.19	0.45	
P-9750	326.00	8.00	120.00	Open	-82.71	2263.42	2263.49	0.07	0.21	
P-9755	650.00	8.00	120.00	Open	-123.82	2264.04	2264.33	0.29	0.44	
P-9760	38.00	6.00	120.00	Open	36.99	2264.05	2264.04	0.01	0.19	
P-9765	621.00	6.00	120.00	Open	-15.49	2264.03	2264.05	0.02	0.04	
P-9770	629.00	6.00	120.00	Open	48.93	2264.22	2264.02	0.20	0.32	
P-9775	664.00	8.00	115.00	Open	-132.82	2264.33	2264.69	0.36	0.55	
P-9780	92.00	8.00	115.00	Open	-133.21	2264.69	2264.74	0.05	0.55	
P-9785	914.00	6.00	120.00	Open	66.94	2264.74	2264.22	0.53	0.58	
P-9790	194.00	8.00	115.00	Open	-201.85	2264.74	2264.97	0.23	1.18	
P-9795	296.00	4.00	115.00	Open	-27.47	2264.97	2265.23	0.25	0.86	
P-9800	107.00	6.00	120.00	Open	0.58	2266.41	2266.41	0.00	0.00	
P-9805	890.00	6.00	120.00	Open	8.65	2263.95	2263.94	0.01	0.01	
P-9810	1244.00	6.00	120.00	Open	-10.34	2263.59	2263.61	0.02	0.02	
P-9815	205.00	6.00	120.00	Open	-23.63	2263.83	2263.85	0.02	0.08	
P-9820	160.00	6.00	120.00	Open	0.00	2263.85	2263.85	0.00	0.00	
P-9870	665.00	6.00	115.00	Open	-12.18	2263.94	2263.95	0.02	0.03	
P-9875	343.00	6.00	115.00	Open	-2.59	2263.94	2263.94	0.00	0.00	
P-9880	569.00	6.00	115.00	Open	-2.20	2263.94	2263.94	0.00	0.00	
P-9885	28.00	6.00	120.00	Open	0.00	2263.94	2263.94	0.00	0.00	
P-10095	701.00	6.00	120.00	Open	-1.53	2272.49	2272.49	0.00	0.00	
P-10100	351.00	6.00	120.00	Open	0.19	2272.49	2272.49	0.00	0.00	
P-10105	382.00	6.00	120.00	Open	1.73	2272.49	2272.49	0.00	0.00	
P-10110	1181.00	6.00	120.00	Open	1.35	2272.49	2272.49	0.00	0.00	
P-10115	967.00	6.00	120.00	Open	-1.15	2272.49	2272.49	0.00	0.00	
P-10120	416.00	6.00	120.00	Open	1.54	2272.49	2272.48	0.00	0.00	
P-10125	317.00	6.00	120.00	Open	0.96	2272.48	2272.48	0.00	0.00	
P-10130	424.00	6.00	120.00	Open	-17.37	2272.46	2272.48	0.02	0.05	
P-10135	59.00	6.00	120.00	Open	10.99	2272.49	2272.49	0.00	0.02	
P-10140	271.00	6.00	120.00	Open	6.57	2272.49	2272.48	0.00	0.01	
P-10145	730.00	6.00	120.00	Open	-14.27	2272.48	2272.51	0.02	0.03	
P-10150	208.00	6.00	120.00	Open	-16.19	2272.51	2272.52	0.01	0.04	
P-10155	110.00	6.00	120.00	Open	-1.35	2272.52	2272.52	0.00	0.00	
P-10160	611.00	6.00	120.00	Open	2.31	2272.52	2272.52	0.00	0.00	
P-10165	266.00	6.00	120.00	Open	17.37	2272.48	2272.47	0.01	0.05	
P-10170	390.00	6.00	120.00	Open	0.19	2272.55	2272.55	0.00	0.00	
P-10225	271.00	6.00	120.00	Open	0.48	2264.87	2264.87	0.00	0.00	
P-10230	218.00	6.00	120.00	Open	0.48	2264.87	2264.87	0.00	0.00	
P-10235	183.00	6.00	120.00	Open	0.00	2264.87	2264.87	0.00	0.00	
P-10245	203.00	6.00	120.00	Open	0.00	2263.45	2263.45	0.00	0.00	
P-10250	54.00	6.00	120.00	Open	0.00	2263.42	2263.42	0.00	0.00	
P-10255	937.00	6.00	120.00	Open	6.13	2263.42	2263.41	0.01	0.01	
P-10260	428.00	6.00	120.00	Open	57.16	2263.42	2263.23	0.18	0.43	
P-10265	485.00	6.00	120.00	Open	2.74	2262.79	2262.79	0.00	0.00	
P-10270	373.00	6.00	120.00	Open	-61.51	2263.14	2263.32	0.18	0.49	
P-10275	619.00	6.00	120.00	Open	47.50	2262.66	2262.47	0.19	0.30	
P-10280	404.00	6.00	120.00	Open	-7.14	2262.47	2262.47	0.00	0.01	
P-10285	40.00	6.00	120.00	Open	4.14	2262.47	2262.47	0.00	0.01	
P-10290	177.00	6.00	120.00	Open	-48.49	2262.47	2262.53	0.06	0.32	
P-10300	361.00	6.00	120.00	Open	-53.64	2262.53	2262.66	0.14	0.38	
P-10305	539.00	6.00	120.00	Open	-52.61	2262.27	2262.47	0.20	0.37	
P-10310	358.00	6.00	120.00	Open	-46.38	2262.16	2262.27	0.10	0.29	
P-10315	266.00	6.00	120.00	Open	34.35	2262.16	2262.12	0.04	0.17	
P-10320	409.00	6.00	120.00	Open	0.00	2262.16	2262.16	0.00	0.00	
P-10325	345.00	6.00	120.00	Open	0.68	2262.27	2262.27	0.00	0.00	
P-10330	330.00	6.00	120.00	Open	-52.63	2262.35	2262.47	0.12	0.37	
P-10335	343.00	6.00	120.00	Open	-41.23	2262.27	2262.35	0.08	0.23	
P-10340	194.00	6.00	120.00	Open	-31.49	2262.24	2262.27	0.03	0.14	
P-10345	757.00	6.00	120.00	Open	-28.86	2262.15	2262.24	0.09	0.12	
P-10350	359.00	6.00	120.00	Open	-1.35	2263.21	2263.21	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-10355	730.00	6.00	120.00	Open	-4.32	2262.94	2262.94	0.00	0.00	
P-10360	562.00	6.00	120.00	Open	-17.36	2262.94	2262.97	0.03	0.05	
P-10365	414.00	6.00	120.00	Open	21.06	2262.66	2262.63	0.03	0.07	
P-10370	775.00	6.00	120.00	Open	17.59	2262.63	2262.59	0.04	0.05	
P-10375	274.00	6.00	120.00	Open	9.01	2262.59	2262.59	0.00	0.01	
P-10380	166.00	6.00	120.00	Open	0.00	2262.15	2262.15	0.00	0.00	
P-10385	2520.00	6.00	120.00	Open	-28.86	2261.84	2262.15	0.31	0.12	
P-10390	44.00	6.00	120.00	Open	3.20	2261.84	2261.84	0.00	0.00	
P-10395	208.00	6.00	120.00	Open	24.28	2261.57	2261.55	0.02	0.09	
P-10400	548.00	6.00	120.00	Open	0.00	2261.55	2261.55	0.00	0.00	
P-10405	76.00	6.00	120.00	Open	0.00	2262.80	2262.80	0.00	0.00	
P-10410	408.00	6.00	120.00	Open	0.84	2256.79	2256.79	0.00	0.00	
P-10415	92.00	6.00	120.00	Open	-88.86	2263.25	2263.34	0.09	0.97	
P-10420	144.00	6.00	120.00	Open	-76.72	2263.15	2263.25	0.11	0.74	
P-10425	617.00	6.00	120.00	Open	-67.92	2262.78	2263.15	0.36	0.59	
P-10430	382.00	6.00	120.00	Open	17.92	2262.78	2262.76	0.02	0.05	
P-10435	143.00	6.00	120.00	Open	-49.42	2262.74	2262.78	0.05	0.33	
P-10440	444.00	6.00	120.00	Open	-48.65	2262.59	2262.74	0.14	0.32	
P-10445	125.00	6.00	120.00	Open	-105.47	2263.21	2263.37	0.17	1.34	
P-10450	152.00	6.00	120.00	Open	-104.89	2263.01	2263.21	0.20	1.32	
P-10455	187.00	6.00	120.00	Open	-0.58	2262.04	2262.04	0.00	0.00	
P-10460	299.00	8.00	120.00	Open	23.62	2261.54	2261.53	0.01	0.02	
P-10465	244.00	8.00	120.00	Open	24.15	2261.54	2261.54	0.01	0.02	
P-10470	288.00	8.00	120.00	Open	24.15	2261.55	2261.54	0.01	0.02	
P-10475	336.00	6.00	115.00	Open	4.50	2261.61	2261.61	0.00	0.00	
P-10480	727.00	6.00	115.00	Open	-3.65	2261.61	2261.61	0.00	0.00	
P-10485	83.00	6.00	120.00	Open	31.21	2261.50	2261.49	0.01	0.14	
P-10490	128.00	6.00	120.00	Open	9.14	2261.62	2261.61	0.00	0.02	
P-10495	337.00	6.00	115.00	Open	6.81	2261.61	2261.61	0.00	0.01	
P-10500	557.00	6.00	115.00	Open	-7.72	2261.54	2261.54	0.01	0.01	
P-10505	911.00	6.00	115.00	Open	1.54	2261.53	2261.53	0.00	0.00	
P-10510	341.00	6.00	115.00	Open	7.23	2261.54	2261.53	0.00	0.01	
P-10515	145.00	6.00	120.00	Open	0.00	2261.54	2261.54	0.00	0.00	
P-10525	42.00	6.00	120.00	Open	11.98	2261.62	2261.61	0.00	0.02	
P-10530	183.00	6.00	120.00	Open	0.76	2257.65	2257.65	0.00	0.00	
P-10535	182.00	6.00	120.00	Open	3.64	2257.65	2257.65	0.00	0.00	
P-10540	917.00	6.00	120.00	Open	-0.97	2257.47	2257.47	0.00	0.00	
P-10550	344.00	6.00	120.00	Open	-5.30	2257.47	2257.47	0.00	0.00	
P-10555	430.00	6.00	120.00	Open	-7.32	2257.47	2257.48	0.00	0.01	
P-10560	189.00	6.00	120.00	Open	13.07	2257.47	2257.46	0.01	0.03	
P-10565	285.00	6.00	120.00	Open	7.50	2257.46	2257.46	0.00	0.01	
P-10570	242.00	6.00	120.00	Open	4.04	2257.46	2257.46	0.00	0.00	
P-10575	671.00	6.00	120.00	Open	2.69	2257.46	2257.46	0.00	0.00	
P-10580	1060.00	6.00	120.00	Open	-35.54	2256.91	2257.10	0.19	0.18	
P-10585	176.00	6.00	120.00	Open	-8.87	2256.91	2256.91	0.00	0.01	
P-10590	197.00	6.00	120.00	Open	26.28	2256.91	2256.89	0.02	0.10	
P-10595	129.00	6.00	120.00	Open	3.93	2256.89	2256.89	0.00	0.00	
P-10600	132.00	6.00	120.00	Open	22.35	2256.89	2256.88	0.01	0.08	
P-10605	76.00	6.00	120.00	Open	0.00	2257.05	2257.05	0.00	0.00	
P-10610	87.00	6.00	120.00	Open	0.00	2256.95	2256.95	0.00	0.00	
P-10615	298.00	6.00	120.00	Open	52.60	2257.15	2257.04	0.11	0.37	
P-10620	1094.00	6.00	120.00	Open	-50.02	2256.78	2257.15	0.37	0.34	
P-10625	595.00	6.00	120.00	Open	27.93	2256.85	2256.78	0.07	0.11	
P-10630	220.00	6.00	120.00	Open	-29.41	2256.75	2256.78	0.03	0.13	
P-10635	186.00	6.00	120.00	Open	48.54	2256.78	2256.72	0.06	0.32	
P-10640	109.00	6.00	120.00	Open	0.00	2256.72	2256.72	0.00	0.00	
P-10645	170.00	6.00	120.00	Open	0.00	2256.72	2256.72	0.00	0.00	
P-10650	161.00	6.00	120.00	Open	10.74	2256.32	2256.32	0.00	0.02	
P-10655	99.00	6.00	120.00	Open	10.74	2256.32	2256.32	0.00	0.02	
P-10660	115.00	6.00	120.00	Open	0.00	2256.32	2256.32	0.00	0.00	
P-10665	563.00	6.00	120.00	Open	5.37	2256.32	2256.31	0.00	0.01	
P-10670	470.00	6.00	120.00	Open	18.40	2255.92	2255.89	0.02	0.05	
P-10680	119.00	6.00	120.00	Open	26.05	2256.03	2256.02	0.01	0.10	
P-10685	164.00	6.00	120.00	Open	11.16	2256.02	2256.01	0.00	0.02	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-10690	57.00	6.00	120.00	Open	14.88	2256.02	2256.01	0.00	0.04	
P-10695	645.00	6.00	120.00	Open	-9.30	2256.00	2256.01	0.01	0.01	
P-10700	42.00	6.00	120.00	Open	5.58	2256.01	2256.01	0.00	0.01	
P-10705	45.00	6.00	120.00	Open	6.38	2256.07	2256.07	0.00	0.01	
P-10710	278.00	6.00	120.00	Open	0.00	2256.90	2256.90	0.00	0.00	
P-10715	405.00	6.00	120.00	Open	23.02	2256.89	2256.85	0.03	0.08	
P-10720	113.00	6.00	120.00	Open	26.36	2256.88	2256.87	0.01	0.10	
P-10725	230.00	6.00	120.00	Open	25.49	2256.87	2256.85	0.02	0.10	
P-10730	145.00	6.00	120.00	Open	19.74	2256.85	2256.85	0.01	0.06	
P-10735	266.00	6.00	120.00	Open	0.00	2256.85	2256.85	0.00	0.00	
P-10740	240.00	6.00	120.00	Open	44.35	2256.85	2256.78	0.06	0.27	
P-10745	126.00	6.00	120.00	Open	14.77	2256.77	2256.76	0.00	0.03	
P-10750	83.00	6.00	120.00	Open	-1.70	2256.76	2256.76	0.00	0.00	
P-10760	160.00	8.00	120.00	Open	11.29	2256.76	2256.76	0.00	0.01	
P-10765	337.00	6.00	120.00	Open	-26.12	2256.76	2256.80	0.03	0.10	
P-10770	335.00	6.00	120.00	Open	5.96	2256.82	2256.82	0.00	0.01	
P-10775	64.00	6.00	120.00	Open	4.80	2256.82	2256.82	0.00	0.00	
P-10780	282.00	6.00	120.00	Open	4.04	2256.82	2256.82	0.00	0.00	
P-10785	89.00	6.00	120.00	Open	-34.09	2256.77	2256.78	0.01	0.16	
P-10790	39.00	6.00	120.00	Open	0.87	2256.85	2256.85	0.00	0.00	
P-10800	597.00	6.00	120.00	Open	-0.96	2256.77	2256.77	0.00	0.00	
P-10805	639.00	6.00	120.00	Open	1.54	2256.77	2256.77	0.00	0.00	
P-10820	616.00	6.00	110.00	Open	0.63	2261.92	2261.92	0.00	0.00	
P-10830	464.00	6.00	110.00	Open	0.00	2261.92	2261.92	0.00	0.00	
P-11075	767.00	4.00	90.00	Open	2.88	2261.73	2261.72	0.02	0.02	
P-11080	261.00	4.00	90.00	Open	0.00	2263.28	2263.28	0.00	0.00	
P-11085	665.00	4.00	90.00	Open	0.90	2265.10	2265.10	0.00	0.00	
P-11090	815.00	4.00	90.00	Open	-0.81	2264.56	2264.56	0.00	0.00	
P-11095	322.00	4.00	90.00	Open	58.52	2263.32	2261.54	1.77	5.50	
P-11100	1121.00	4.00	90.00	Open	0.00	2261.54	2261.54	0.00	0.00	
P-11105	455.00	4.00	90.00	Open	-4.20	2263.32	2263.33	0.01	0.03	
P-11110	442.00	4.00	90.00	Open	-3.98	2263.33	2263.34	0.01	0.03	
P-11115	438.00	4.00	90.00	Open	0.46	2263.34	2263.34	0.00	0.00	
P-11120	399.00	4.00	90.00	Open	0.45	2263.34	2263.34	0.00	0.00	
P-11125	742.00	4.00	90.00	Open	38.22	2258.71	2256.85	1.86	2.50	
P-11130	610.00	4.00	90.00	Open	50.45	2261.26	2258.71	2.55	4.18	
P-11135	398.00	4.00	90.00	Open	-2.85	2263.34	2263.35	0.01	0.02	
P-11140	474.00	4.00	90.00	Open	2.61	2263.57	2263.56	0.01	0.02	
P-11145	318.00	4.00	90.00	Open	15.38	2263.72	2263.57	0.15	0.46	
P-11150	343.00	4.00	90.00	Open	-4.41	2263.57	2263.59	0.02	0.05	
P-11155	291.00	4.00	90.00	Open	10.45	2263.59	2263.52	0.07	0.23	
P-11160	314.00	4.00	90.00	Open	-16.27	2263.59	2263.75	0.16	0.51	
P-11165	619.00	8.00	120.00	Open	-40.43	2263.75	2263.78	0.03	0.06	
P-11170	824.00	8.00	120.00	Open	-44.23	2263.78	2263.84	0.05	0.07	
P-11175	67.00	4.00	90.00	Open	-23.84	2263.82	2263.89	0.07	1.04	
P-11180	273.00	4.00	90.00	Open	-3.05	2263.89	2263.90	0.01	0.02	
P-11205	689.00	4.00	90.00	Open	5.77	2264.01	2263.96	0.05	0.08	
P-11210	1167.00	4.00	90.00	Open	2.30	2263.96	2263.95	0.02	0.01	
P-11225	355.00	4.00	90.00	Open	16.66	2264.22	2264.03	0.19	0.54	
P-11230	394.00	4.00	90.00	Open	6.92	2263.94	2263.90	0.04	0.11	
P-11240	862.00	4.00	90.00	Open	3.07	2263.44	2263.42	0.02	0.02	
P-11245	210.00	4.00	90.00	Open	-4.96	2263.42	2263.44	0.01	0.06	
P-11250	712.00	4.00	90.00	Open	-12.14	2263.04	2263.25	0.21	0.30	
P-11255	334.00	4.00	90.00	Open	-9.55	2262.53	2262.60	0.06	0.19	
P-11260	135.00	4.00	90.00	Open	15.25	2262.60	2262.53	0.06	0.46	
P-11265	337.00	4.00	90.00	Open	-8.62	2262.53	2262.59	0.05	0.16	
P-11270	871.00	4.00	90.00	Open	-6.09	2262.52	2262.59	0.07	0.08	
P-11275	432.00	8.00	90.00	Open	-73.06	2262.58	2262.71	0.12	0.28	
P-11280	1203.00	4.00	90.00	Open	-8.93	2262.58	2262.79	0.20	0.17	
P-11290	23.00	4.00	90.00	Open	64.87	2262.79	2262.63	0.15	6.67	
P-11295	426.00	4.00	90.00	Open	0.36	2262.79	2262.79	0.00	0.00	
P-11300	679.00	4.00	90.00	Open	10.35	2262.94	2262.79	0.15	0.22	
P-11305	414.00	4.00	90.00	Open	9.18	2262.79	2262.71	0.07	0.18	
P-11310	343.00	4.00	90.00	Open	7.45	2262.71	2262.67	0.04	0.12	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-11365	451.00	4.00	90.00	Open	-0.27	2268.40	2268.40	0.00	0.00	
P-11415	669.00	4.00	90.00	Open	23.33	2263.14	2262.47	0.67	1.00	
P-11420	1070.00	4.00	90.00	Open	6.23	2263.23	2263.14	0.09	0.09	
P-11425	526.00	4.00	90.00	Open	-9.99	2262.24	2262.35	0.11	0.21	
P-11430	685.00	4.00	90.00	Open	13.19	2262.29	2262.05	0.24	0.35	
P-11435	1194.00	4.00	90.00	Open	8.58	2262.05	2261.86	0.19	0.16	
P-11440	246.00	4.00	90.00	Open	5.12	2261.86	2261.85	0.01	0.06	
P-11445	71.00	4.00	90.00	Open	-5.12	2261.84	2261.85	0.00	0.06	
P-11450	366.00	4.00	90.00	Open	4.50	2261.63	2261.61	0.02	0.05	
P-11455	844.00	4.00	90.00	Open	-1.54	2261.61	2261.61	0.00	0.00	
P-11460	312.00	4.00	90.00	Open	2.14	2261.61	2261.61	0.00	0.01	
P-11465	880.00	4.00	90.00	Open	-1.71	2261.61	2261.61	0.00	0.00	
P-11470	705.00	4.00	90.00	Open	5.84	2261.61	2261.56	0.05	0.08	
P-11475	396.00	4.00	90.00	Open	4.11	2261.56	2261.54	0.02	0.04	
P-11480	397.00	4.00	90.00	Open	2.38	2261.54	2261.54	0.01	0.01	
P-11485	945.00	4.00	90.00	Open	3.09	2261.61	2261.59	0.02	0.02	
P-11495	233.00	4.00	90.00	Open	-0.01	2261.53	2261.53	0.00	0.00	
P-11500	673.00	4.00	90.00	Open	-0.30	2257.47	2257.47	0.00	0.00	
P-11505	478.00	4.00	90.00	Open	0.10	2257.47	2257.47	0.00	0.00	
P-12010	445.00	2.00	85.00	Open	-7.82	2256.79	2258.71	1.92	4.31	
P-12015	258.00	8.00	120.00	Open	-83.32	2263.84	2263.89	0.05	0.21	
P-12020	264.00	8.00	85.00	Open	-63.32	2263.89	2263.95	0.06	0.24	
P-12040	463.00	2.00	85.00	Open	0.58	2263.96	2263.95	0.02	0.03	
P-12045	1461.00	2.00	85.00	Open	1.06	2263.92	2263.76	0.16	0.11	
P-12050	53.00	2.00	85.00	Open	-10.60	2262.64	2263.04	0.40	7.57	
P-12055	948.00	2.00	85.00	Open	1.95	2263.41	2263.10	0.31	0.33	
P-12065	336.00	2.00	85.00	Open	0.58	2262.57	2262.56	0.01	0.03	
P-12070	593.00	2.00	85.00	Open	1.14	2262.64	2262.57	0.07	0.12	
P-12075	666.00	2.00	85.00	Open	0.97	2262.63	2262.57	0.06	0.09	
P-12090	185.00	2.00	85.00	Open	0.56	2261.54	2261.53	0.01	0.03	
P-12095	471.00	2.00	85.00	Open	1.17	2261.59	2261.53	0.06	0.13	
P-12100	140.00	2.00	85.00	Open	-1.25	2257.47	2257.49	0.02	0.14	
P-12105	122.00	2.00	85.00	Open	-1.43	2257.47	2257.50	0.02	0.18	
P-12110	140.00	2.00	85.00	Open	-1.34	2257.47	2257.50	0.02	0.16	
P-21000	2118.00	12.00	100.00	Closed	0.00	2256.64	2260.21	0.00	0.00	
P-21010	2447.00	12.00	100.00	Open	-226.20	2260.21	2260.86	0.64	0.26	
P-21020	2878.00	12.00	100.00	Open	226.20	2260.21	2259.46	0.76	0.26	
P-21030	2408.00	12.00	100.00	Open	226.20	2259.46	2258.82	0.63	0.26	
P-21040	3109.00	12.00	100.00	Open	226.20	2258.72	2257.91	0.82	0.26	
P-24000	384.00	10.00	100.00	Open	141.25	2262.68	2262.58	0.10	0.27	
P-24010	2698.00	10.00	100.00	Open	-226.20	2260.86	2262.58	1.72	0.64	
P-25000	332.00	8.00	100.00	Open	84.96	2262.68	2262.58	0.10	0.31	
P-25010	157.00	10.00	100.00	Open	226.20	2258.82	2258.72	0.10	0.64	
P-30000	105.00	12.00	120.00	Open	1083.81	2275.00	2274.64	0.36	3.41	
P10	111.00	20.00	120.00	Open	0.00	2231.98	2231.98	0.00	0.00	
P11	87.00	20.00	120.00	Open	0.00	2257.04	2257.04	0.00	0.00	
P12	10.00	8.00	120.00	Open	0.00	2231.98	2231.98	0.00	0.00	
P14	7.00	6.00	130.00	Open	0.00	2231.98	2231.98	0.00	0.00	
P16	11.00	8.00	120.00	Open	0.00	2231.98	2231.98	0.00	0.00	
P18	8.00	8.00	120.00	Open	0.00	2231.98	2231.98	0.00	0.00	
P20	8.00	8.00	120.00	Open	0.00	2257.04	2257.04	0.00	0.00	
P22	10.00	8.00	120.00	Open	0.00	2257.04	2257.04	0.00	0.00	
P24	8.00	6.00	130.00	Open	0.00	2257.04	2257.04	0.00	0.00	
P28	11.00	8.00	120.00	Open	0.00	2257.04	2257.04	0.00	0.00	
P30	8.00	8.00	120.00	Open	0.00	2231.98	2231.98	0.00	0.00	
P32	8.00	8.00	120.00	Open	0.00	2257.04	2257.04	0.00	0.00	

**TOWN OF BLACKSBURG WATER SYSTEM  
FIRST & MAIN PROJECT HYDRAULIC ANALYSIS  
MAY 4, 2007**

**Run 1 - Maximum Daily Demand plus maximum available fire flow calculated for  
Proposed First & Main Project  
All Tanks at Normal Low Level & Triangle PS Off.**

**Steady State Analysis  
Tank Report**

Node Label	Base Elevation (ft)	Minimum Elevation (ft)	Initial Elevation (ft)	Maximum Elevation (ft)	Diameter (ft)	Inflow (gpm)	Hydraulic Grade (ft)
Highland Park Tank-1	2237.00	2237.00	2275.00	2284.17	85.00	-2027.43	2275.00
Highland Park Tank-2	2254.00	2254.00	2275.00	2284.00	75.00	-1083.81	2275.00
Tank-Merrimac 1	2207.00	2207.00	2225.00	2242.00	100.00	3705.85	2225.00
Tank-Merrimac 2	2207.00	2207.00	2225.00	2242.00	70.00	4043.64	2225.00
Tank-Neil Street	2252.00	2252.00	2275.00	2284.00	106.00	-2483.45	2275.00
SR-HGL from BCVPIWA 1	--	--	2240.00	--	--	-4339.42	2240.00
SR-HGL from BCVPIWA 2	--	--	2240.00	--	--	-3410.08	2240.00

**Pump Report**

Pump Label	Elevation (ft)	Control Status	Intake Pump Grade (ft)	Discharge Pump Grade (ft)	Discharge (gpm)	Pump Head (ft)
PS-Bburg2	2,140.00	Off	2,231.98	2,257.04	0.00	0.00
PS-Bburg3	2,140.00	Off	2,231.98	2,257.04	0.00	0.00
PS-Triangle-Blacksburg Booster	2,140.00	Off	2,231.98	2,257.04	0.00	0.00

**TOWN OF BLACKSBURG WATER SYSTEM**  
**FIRST & MAIN PROJECT HYDRAULIC ANALYSIS**  
**MAY 4, 2007**

Run 1 - Maximum Daily Demand plus maximum available fire flow calculated for

Proposed First & Main Project

All Tanks at Normal Low Level & Triangle PS Off.

**Steady State Analysis**

Fire Flow Report - sorted by Available Fire Flow

Node Label	Pressure Zone	Fire Flow Constraints Satisfied	Desired Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Desired (gpm)	Total Flow Available (gpm)	Desired Residual Pressure (psi)	Calculated Residual Pressure (psi)	Desired Minimum Zone Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum System Pressure (psi)	Desired Minimum System Pressure (psi)	Calculated Minimum System Pressure (psi)	Minimum System Pressure Node
MJ-29	Low System	TRUE	1000.00	1153.08	1011.01	1164.09	55.00	55.00	20.00	21.70	J-2120	N/A	6.38	J-10
MJ-9	Low System	TRUE	1000.00	1226.24	1008.61	1234.85	55.00	55.00	20.00	21.67	J-2120	N/A	6.36	J-10
MJ-35	Low System	TRUE	1000.00	1318.05	1023.18	1341.24	55.00	55.00	20.00	21.66	J-2120	N/A	6.32	J-10
MJ-41	Low System	TRUE	1000.00	1446.37	1011.39	1457.76	55.00	55.00	20.00	21.63	J-2120	N/A	6.28	J-10
MJ-25	Low System	TRUE	1000.00	1574.08	1003.43	1577.52	55.00	55.00	20.00	21.59	J-2680	N/A	6.23	J-10
MJ-22	Low System	TRUE	1000.00	1582.69	1009.07	1591.76	55.00	55.00	20.00	21.58	J-2680	N/A	6.23	J-10
MJ-62	Low System	TRUE	1000.00	1795.27	1013.66	1808.93	55.00	55.00	20.00	21.28	J-2680	N/A	6.15	J-10
MJ-57	Low System	TRUE	1000.00	1808.13	1003.41	1811.54	55.00	55.00	20.00	21.26	J-2680	N/A	6.15	J-10
MJ-60	Low System	TRUE	1000.00	1822.42	1005.73	1828.15	55.00	55.00	20.00	21.24	J-2680	N/A	6.14	J-10
MJ-17	Low System	TRUE	1000.00	1915.33	1011.07	1926.40	55.00	55.00	20.00	21.11	J-2680	N/A	6.11	J-10
MJ-49	Low System	TRUE	1000.00	2029.71	1022.39	2052.10	55.00	55.00	20.00	20.93	J-2680	N/A	6.07	J-10
MJ-52	Low System	TRUE	1000.00	2116.41	1015.24	2131.64	55.00	55.00	20.00	20.80	J-2680	N/A	6.04	J-10
MJ-44	Low System	TRUE	1000.00	2408.13	1000.00	2408.13	20.00	20.00	20.00	20.35	J-2680	N/A	5.93	J-10
MJ-12	Low System	TRUE	1.00	2587.40	1.00	2587.40	20.00	43.66	20.00	20.00	J-2680	N/A	5.86	J-10
MJ-11	Low System	TRUE	1000.00	2588.69	1000.00	2588.69	20.00	40.87	20.00	20.00	J-2680	N/A	5.86	J-10
MJ-10	Low System	TRUE	1.00	2588.73	1.00	2588.73	20.00	43.00	20.00	20.00	J-2680	N/A	5.86	J-10
MJ-64	Low System	TRUE	1.00	2591.04	5.48	2595.52	20.00	44.41	20.00	20.00	J-2680	N/A	5.86	J-10
MJ-8	Low System	TRUE	1.00	2592.07	1.00	2592.07	20.00	41.41	20.00	20.00	J-2680	N/A	5.86	J-10
MJ-7	Low System	TRUE	1.00	2593.47	8.22	2600.69	20.00	40.75	20.00	20.00	J-2680	N/A	5.86	J-10
MJ-6	Low System	TRUE	1000.00	2596.70	1000.00	2596.70	20.00	37.29	20.00	20.00	J-2680	N/A	5.86	J-10
MJ-5	Low System	TRUE	1.00	2596.75	1.00	2596.75	20.00	39.44	20.00	20.00	J-2680	N/A	5.86	J-10
MJ-3	Low System	TRUE	1.00	2605.73	1.00	2605.73	20.00	36.75	20.00	20.00	J-2680	N/A	5.85	J-10
MJ-4	Low System	TRUE	1000.00	2606.17	1000.00	2606.17	20.00	34.58	20.00	20.00	J-2680	N/A	5.85	J-10
MJ-1	Low System	TRUE	1.00	2614.11	1.00	2614.11	20.00	39.62	20.00	20.00	J-2680	N/A	5.85	J-10
MJ-2	Low System	TRUE	1000.00	2614.33	1000.00	2614.33	20.00	34.17	20.00	20.00	J-2680	N/A	5.85	J-10
MJ-63	Low System	TRUE	1.00	2614.54	1.00	2614.54	20.00	64.52	20.00	20.00	J-2680	N/A	5.85	J-10
J-4905	Low System	TRUE	1.00	2621.25	5.97	2626.22	20.00	46.28	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-14	Low System	TRUE	1000.00	2621.33	1000.00	2621.33	20.00	40.94	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-13	Low System	TRUE	1.00	2621.42	1.00	2621.42	20.00	42.91	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-50	Low System	TRUE	1.00	2622.59	1.00	2622.59	20.00	55.35	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-48	Low System	TRUE	1.00	2623.53	1.00	2623.53	20.00	52.44	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-47	Low System	TRUE	1.00	2623.62	13.67	2636.29	20.00	49.34	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-45	Low System	TRUE	1.00	2624.44	1.00	2624.44	20.00	48.87	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-46	Low System	TRUE	1000.00	2624.48	1000.00	2624.48	20.00	41.41	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-51	Low System	TRUE	1.00	2624.49	1.00	2624.49	20.00	51.34	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-54	Low System	TRUE	1000.00	2625.07	1000.00	2625.07	20.00	47.62	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-53	Low System	TRUE	1.00	2625.11	1.00	2625.11	20.00	50.25	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-43	Low System	TRUE	1.00	2625.96	1.00	2625.96	20.00	39.27	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-55	Low System	TRUE	1.00	2626.11	6.41	2631.52	20.00	48.12	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-42	Low System	TRUE	1.00	2626.18	16.56	2641.73	20.00	38.23	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-40	Low System	TRUE	1.00	2626.28	1.00	2626.28	20.00	37.94	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-38	Low System	TRUE	1.00	2626.72	1.00	2626.72	20.00	36.33	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-39	Low System	TRUE	1000.00	2626.79	1000.00	2626.79	20.00	34.13	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-37	Low System	TRUE	1.00	2626.84	28.78	2654.62	20.00	35.04	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-34	Low System	TRUE	1.00	2627.22	1.00	2627.22	20.00	34.20	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-36	Low System	TRUE	1.00	2627.25	8.01	2634.25	20.00	34.15	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-56	Low System	TRUE	1.00	2627.25	1.00	2627.25	20.00	47.88	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-33	Low System	TRUE	1000.00	2627.30	1000.00	2627.30	20.00	31.49	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-32	Low System	TRUE	1.00	2627.38	1.00	2627.38	20.00	34.12	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-31	Low System	TRUE	1000.00	2627.69	1000.00	2627.69	20.00	30.59	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-30	Low System	TRUE	1.00	2627.73	1.00	2627.73	20.00	36.52	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-58	Low System	TRUE	1.00	2627.78	1.00	2627.78	20.00	48.36	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-59	Low System	TRUE	1000.00	2627.78	1000.00	2627.78	20.00	45.28	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-28	Low System	TRUE	1000.00	2628.72	1000.00	2628.72	20.00	37.43	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-26	Low System	TRUE	1.00	2628.73	1.00	2628.73	20.00	42.41	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-27	Low System	TRUE	1.00	2628.74	1.00	2628.74	20.00	39.63	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-24	Low System	TRUE	1.00	2629.02	1.00	2629.02	20.00	44.03	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-61	Low System	TRUE	1.00	2629.05	1.00	2629.05	20.00	49.16	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-23	Low System	TRUE	1.00	2629.09	8.64	2636.73	20.00	43.76	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-21	Low System	TRUE	1.00	2629.15	1.00	2629.15	20.00	44.76	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-20	Low System	TRUE	1000.00	2630.42	1000.00	2630.42	20.00	48.50	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-19	Low System	TRUE	1.00	2630.47	1.00	2630.47	20.00	50.70	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-18	Low System	TRUE	1.00	2630.72	1.00	2630.72	20.00	51.66	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-16	Low System	TRUE	1.00	2633.29	1.00	2633.29	20.00	52.25	20.00	20.00	J-2680	N/A	5.84	J-10
MJ-15	Low System	TRUE	1.00	2638.95	1.00	2638.95	20.00	55.85	20.00	20.00	J-2680	N/A	5.83	J-10



**APPENDIX D**  
**Hydraulic Analysis, Run 2**



Run #2 – Extended period analysis of maximum daily conditions for the proposed Town of Blacksburg water system plus 1000 gpm fire hydrant demand at MJ-11 and 1000 gpm fire sprinkler demand at MJ-9 for a duration of 2 hours. Both nodes are located on the First & Main project Site.

Initial conditions are as follows:

Proposed First & Main project – Constructed

Highland Park Tank #1 – Normal Low (38' Above Base)

Highland Park Tank #2 – Normal Low (21' Above Base)

Neil Street Tank – Normal Low (23' Above Base)

Triangle Pump Station – Pumps #2 & #3 On

Purpose – To identify if the proposed system is capable of supporting a 2-hour 1000 gpm fire hydrant demand and 1000 gpm fire sprinkler demand at the proposed site while maintaining 20 psi for all users in the system.

Result – During the duration of the fire flow event 20 psi is maintained throughout the system.

**TOWN OF BLACKSBURG WATER SYSTEM**  
**FIRST & MAIN PROJECT HYDRAULIC ANALYSIS**  
**MAY 4, 2007**

**Run 2 - Maximum Daily Demand plus 1000 gpm fire hydrant demand at MJ-11 and  
 1000 gpm fire sprinkler demand at MJ-9 for a duration of 2 hours both nodes  
 are located within the First & Main project site.**

**All Tanks at Normal Low Level & Triangle PS Pumps #2 & #3 On.**

**Extended Period Analysis - Reported after 2 of 2 hours**

**Junction Report - sorted by pressure**

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-10	2258.00	Base of Tank	0.00	2273.69	6.80
J-18	2256.00	Base of Tank	0.00	2273.69	7.67
J-1540	2253.00	Base of Tank	0.00	2273.59	8.93
J-1	2207.00	Merrimac	0.00	2228.86	9.48
J-551	2250.00	Base of Tank	0.00	2273.69	10.27
J-2080	2247.00	No Connections-Low System	0.00	2271.50	10.62
J-2	2207.00	Merrimac	0.00	2231.81	10.76
J-2070	2241.00	No Connections-Low System	0.00	2271.54	13.24
J-3	2239.00	Base of Tank	0.00	2272.16	14.38
J-2090	2236.00	Base of Tank	0.00	2271.75	15.50
J-550	2237.00	Base of Tank	0.00	2273.79	15.95
J-2660	2233.00	No Connections-Low System	0.77	2273.13	17.40
J-1520	2229.50	No Connections-Low System	0.38	2273.59	19.11
J-549	2229.50	No Connections-Low System	0.00	2273.60	19.12
J-2120	2222.00	Low System	0.00	2271.44	21.43
J-2060	2215.00	Low System	0.00	2270.99	24.27
J-5320	2215.00	Low System	1.73	2273.49	25.36
J-1510	2214.00	Low System	0.58	2273.57	25.82
J-2680	2212.00	Low System	0.00	2271.77	25.91
J-332	2210.00	Low System	0.00	2273.56	27.55
J-4160	2199.50	Low System	0.19	2267.75	29.59
J-5440	2202.00	Low System	1.15	2271.74	30.24
J-413	2201.00	Low System	0.00	2271.44	30.54
J-2050	2200.00	Low System	17.43	2270.57	30.59
J-4170	2194.50	Low System	66.20	2267.75	31.76
J-2670	2199.00	Low System	1.54	2272.65	31.93
J-6940	2191.00	Low System	9.43	2270.15	34.31
J-39	2187.00	Low System	2.00	2267.73	35.00
J-2030	2189.00	Low System	0.00	2270.16	35.18
J-7470	2187.00	Low System	0.00	2268.76	35.45
J-7460	2187.00	Low System	3.84	2268.77	35.45
J-2040	2188.00	Low System	0.00	2270.18	35.63
J-7520	2186.00	Low System	8.46	2268.76	35.88
J-7480	2183.00	Low System	4.86	2268.75	37.17
J-14	2140.00	Merrimac	0.00	2226.35	37.44
J-6650	2182.50	Low System	1.15	2269.27	37.62
J-5360	2185.00	Low System	2.88	2272.00	37.72
J-5330	2185.00	Low System	2.11	2272.01	37.72
J10	2137.20	Merrimac	0.00	2224.25	37.74
J12	2137.20	Merrimac	0.00	2224.25	37.74
J-9630	2183.00	Low System	2.20	2270.27	37.83
J-9810	2184.00	Low System	0.19	2271.39	37.89
J-2130	2184.00	Low System	0.38	2271.41	37.89
J-7530	2181.00	Low System	0.00	2268.76	38.05
J-6640	2181.50	Low System	0.00	2269.27	38.05
J-43	2179.50	Low System	0.00	2267.74	38.25
J14	2137.20	Merrimac	0.00	2225.73	38.38
J-9620	2181.50	Low System	9.59	2270.27	38.48
J-6620	2180.50	Low System	1.15	2269.27	38.48
J-1500	2184.00	Low System	1.54	2273.53	38.81
J-6950	2180.00	Low System	8.88	2270.15	39.08
J-5460	2181.00	Low System	1.73	2271.43	39.20
J-5450	2181.00	Low System	0.56	2271.44	39.21
J-2010	2179.00	Low System	0.00	2269.72	39.33
J-2020	2179.00	Low System	0.00	2269.76	39.35

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-5340	2181.00	Low System	2.11	2272.08	39.48
J-7450	2177.00	Low System	0.00	2269.76	40.22
J-9770	2178.00	Low System	2.50	2271.33	40.46
J-2510	2183.00	Low System	0.00	2276.73	40.63
J-2520	2183.00	Low System	2.31	2276.73	40.63
J-7310	2174.00	Low System	0.00	2267.75	40.64
J-9545	2175.50	Low System	1.35	2269.27	40.65
J-9570	2175.00	Low System	0.58	2269.57	41.00
J-2000	2175.00	Low System	0.00	2269.63	41.02
J-2500	2177.00	Low System	0.19	2273.68	41.91
J-7300	2171.00	Low System	0.00	2267.75	41.94
J-16	2170.00	Low System	0.00	2267.28	42.17
J-5430	2174.00	Low System	3.65	2271.67	42.34
J-7420	2171.50	Low System	3.63	2269.73	42.58
J-2460	2175.00	Low System	0.00	2273.53	42.71
J-350	2128.00	Merrimac	0.00	2226.67	42.78
J-7440	2171.00	Low System	0.00	2269.73	42.80
J-2490	2174.50	Low System	2.11	2273.68	43.00
J-414	2172.00	Low System	0.00	2271.22	43.01
J-1990	2170.00	Low System	1.73	2269.57	43.17
J-629	2168.00	Low System	2.08	2267.73	43.23
J-4920	2173.50	Low System	0.96	2273.52	43.36
J-5470	2171.00	Low System	2.11	2271.33	43.50
J-1490	2173.00	Low System	0.58	2273.50	43.57
J-443	2169.80	Low System	0.00	2270.42	43.62
J-7550	2168.00	Low System	1.35	2268.69	43.65
J-7650	2167.00	Low System	22.76	2268.26	43.90
J-4990	2172.00	Low System	1.15	2273.58	44.04
J-38	2166.00	Low System	1.00	2267.73	44.10
J-572	2175.00	Low System	0.00	2276.83	44.15
J-574	2175.00	Low System	0.00	2276.83	44.15
J-6510	2168.50	Low System	14.80	2270.42	44.18
J-1480	2171.50	Low System	0.19	2273.46	44.20
J-2690	2169.00	Low System	1.73	2271.11	44.27
J-4090	2166.00	Low System	0.00	2268.26	44.33
J-7220	2169.00	Low System	0.00	2271.33	44.36
J-7580	2166.00	Low System	1.35	2268.40	44.39
J-442	2168.00	Low System	0.00	2270.42	44.40
J-2155	2168.80	Low System	0.00	2271.37	44.47
J-571	2174.00	Low System	4.17	2276.83	44.58
J-142	2166.00	Low System	0.00	2268.86	44.59
J-4050	2166.00	Low System	38.66	2268.89	44.60
J-9885	2165.00	Low System	0.00	2268.26	44.76
J-563	2168.00	Low System	0.00	2271.28	44.77
J-565	2168.00	Low System	0.00	2271.28	44.77
J-11105	2165.50	Low System	2.88	2269.22	44.96
J-5420	2167.50	Low System	2.35	2271.79	45.21
J-2530	2172.00	Low System	1.40	2276.73	45.40
J-7570	2163.00	Low System	0.00	2268.69	45.82
J-7540	2163.00	Low System	4.86	2268.69	45.82
J-3315	2162.00	Low System	0.00	2267.74	45.84
J-5410	2166.00	Low System	0.99	2271.86	45.89
J-6970	2164.00	Low System	0.00	2270.15	46.02
J-557	2165.00	Low System	6.90	2271.28	46.08
J-2150	2165.00	Low System	0.00	2271.37	46.12
J-6980	2163.00	Low System	0.00	2270.15	46.45
J-6960	2163.00	Low System	6.11	2270.15	46.45
J-2540	2169.00	Low System	0.96	2276.73	46.70
J-7210	2163.00	Low System	1.73	2271.33	46.96
J-4200	2163.00	Low System	0.58	2271.39	46.99
J-2140	2163.00	Low System	0.00	2271.39	46.99
J-48	2162.20	Low System	2.00	2270.74	47.05
J-4040	2161.00	Low System	0.32	2269.59	47.08
J-2480	2165.00	Low System	1.35	2273.59	47.08
J-155	2160.00	Low System	11.00	2268.75	47.14
J-170	2160.00	Low System	20.00	2268.86	47.19
J-175	2160.00	Low System	20.00	2268.87	47.20

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-5180	2150.00	Low System	0.77	2259.24	47.36
J-7660	2159.00	Low System	9.43	2268.26	47.37
J-1600	2163.00	Low System	5.58	2272.63	47.53
J-152	2159.00	Low System	0.00	2268.75	47.58
J-5390	2162.00	Low System	1.88	2271.86	47.63
J-1610	2162.00	Low System	1.92	2272.22	47.78
J-5300	2163.00	Low System	1.77	2273.39	47.86
J-154	2158.00	Low System	0.00	2268.75	48.01
J-11060	2161.00	Low System	0.90	2271.79	48.03
J-335	2156.50	Low System	4.17	2267.73	48.22
J-7430	2158.00	Low System	3.38	2269.59	48.38
J-5170	2149.00	Low System	0.58	2260.69	48.42
J-7320	2156.00	Low System	0.00	2267.75	48.45
J-166	2157.00	Low System	11.00	2268.83	48.48
J-11050	2160.00	Low System	2.88	2272.12	48.61
J-4380	2186.00	Low System	1.61	2298.35	48.71
J-4980	2161.00	Low System	1.35	2273.52	48.78
J-6910	2157.00	Low System	1.36	2269.60	48.82
J-47	2158.00	Low System	2.00	2270.61	48.82
J-9865	2156.00	Low System	0.00	2268.75	48.88
J-7490	2156.00	Low System	3.07	2268.75	48.88
J-171	2156.00	Low System	20.00	2268.89	48.94
J-5730	2158.00	Low System	1.15	2271.28	49.11
J-11055	2158.00	Low System	0.00	2271.28	49.11
J-440	2157.00	Low System	0.00	2270.42	49.17
J-6930	2156.00	Low System	3.10	2269.60	49.25
J-327	2188.50	Low System	6.00	2302.18	49.28
J-628	2154.00	Low System	2.08	2267.73	49.30
J-37	2154.00	Low System	1.00	2267.73	49.30
J-9860	2155.00	Low System	0.00	2268.75	49.31
J-156	2155.00	Low System	11.00	2268.75	49.31
J-201	2163.00	Low System	0.00	2276.83	49.35
J-167	2155.00	Low System	0.00	2268.85	49.36
J-9625	2156.00	Low System	0.38	2270.27	49.54
J-5290	2159.00	Low System	0.38	2273.36	49.58
J-7740	2153.50	Low System	5.17	2267.91	49.60
J-5250	2155.00	Low System	1.15	2269.53	49.65
J-5700	2156.50	Low System	0.58	2271.28	49.76
J-2710	2155.50	Low System	2.00	2270.29	49.76
J-203	2162.00	Low System	3.70	2276.83	49.78
J-9765	2156.50	Low System	1.54	2271.34	49.78
J-5190	2151.00	Low System	3.29	2265.87	49.80
J-5750	2156.50	Low System	1.73	2271.47	49.84
J-5490	2156.00	Low System	0.00	2271.11	49.90
J-1590	2158.00	Low System	0.00	2273.17	49.93
J-1580	2158.00	Low System	0.00	2273.17	49.93
J-9635	2155.00	Low System	0.00	2270.27	49.97
J-1460	2158.00	Low System	0.00	2273.33	50.00
J-6920	2154.00	Low System	3.10	2269.59	50.11
J-145	2153.00	Low System	11.00	2268.82	50.21
J-169	2153.00	Low System	0.00	2268.86	50.23
J-233	2155.00	Low System	5.00	2271.31	50.42
J-626	2151.00	Low System	2.08	2267.73	50.60
J-6610	2152.50	Low System	1.92	2269.29	50.63
J-5690	2154.50	Low System	1.35	2271.34	50.65
J-7750	2151.00	Low System	0.00	2267.87	50.67
J-5175	2154.00	Low System	0.00	2270.89	50.67
J-268	2180.00	Low System	0.00	2297.54	50.96
J-200	2159.00	Low System	0.00	2276.83	51.08
J-6990	2153.50	Low System	3.84	2271.38	51.10
J-270	2179.50	Low System	4.65	2297.52	51.16
J-650	2152.00	Low System	2.08	2270.21	51.25
J-326	2183.90	Low System	0.00	2302.18	51.28
J-7590	2150.00	Low System	1.73	2268.38	51.32
J-9360	2153.00	Low System	0.00	2271.44	51.35
J-168	2150.00	Low System	0.00	2268.85	51.53
J-4060	2149.00	Low System	0.00	2268.05	51.61

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-5680	2152.00	Low System	0.96	2271.42	51.77
J-267	2178.00	Low System	0.00	2297.57	51.84
J-5710	2151.00	Low System	1.54	2271.20	52.11
J-5720	2151.00	Low System	0.00	2271.28	52.14
J-1450	2153.00	Low System	0.00	2273.32	52.16
J-1470	2153.00	Low System	0.19	2273.38	52.18
J-5670	2151.00	Low System	1.54	2271.42	52.21
J-4070	2147.50	Low System	0.00	2268.14	52.30
J-4080	2147.50	Low System	1.21	2268.15	52.31
J-7670	2147.50	Low System	0.00	2268.31	52.37
J-49	2150.00	Low System	0.00	2270.81	52.37
J-7680	2147.50	Low System	13.23	2268.32	52.38
J-7690	2147.50	Low System	0.00	2268.33	52.38
J-9905	2147.00	Low System	5.65	2267.92	52.42
J-1440	2152.00	Low System	0.00	2273.36	52.61
J-2160	2150.00	Low System	1.49	2271.37	52.62
J-271	2176.00	Low System	0.00	2297.57	52.70
J-636	2148.00	Low System	0.00	2269.58	52.71
J-7170	2149.50	Low System	0.00	2271.33	52.82
J-7160	2149.50	Low System	2.11	2271.33	52.82
J-199	2155.00	Low System	0.00	2276.83	52.82
J-5400	2150.00	Low System	1.15	2271.86	52.83
J-9910	2146.00	Low System	2.74	2267.92	52.86
J-4100	2146.00	Low System	3.63	2268.26	53.00
J-7120	2149.00	Low System	2.11	2271.33	53.03
J-5310	2151.00	Low System	0.00	2273.39	53.06
J-5740	2149.00	Low System	1.54	2271.44	53.08
J-5260	2148.00	Low System	1.54	2270.50	53.11
J-36	2145.00	Low System	0.00	2267.73	53.21
J-144	2146.00	Low System	0.00	2268.82	53.24
J-174	2146.00	Low System	20.00	2268.94	53.29
J-7730	2145.00	Low System	13.24	2268.02	53.33
J-5280	2149.50	Low System	0.00	2272.63	53.38
J-7620	2145.00	Low System	2.31	2268.31	53.46
J-4110	2145.00	Low System	0.38	2268.31	53.46
J-9805	2148.00	Low System	0.00	2271.31	53.46
J-9935	2144.50	Low System	5.14	2267.84	53.47
J-9145	2147.00	Low System	1.15	2270.48	53.53
J-5620	2148.50	Low System	3.27	2272.14	53.60
J-5200	2149.00	Low System	0.96	2272.68	53.62
J-42	2144.00	Low System	0.00	2267.73	53.64
J-6630	2145.50	Low System	1.15	2269.26	53.65
J-198	2153.00	Low System	3.70	2276.83	53.68
J-5480	2147.00	Low System	0.00	2271.12	53.81
J-7100	2147.00	Low System	0.00	2271.34	53.90
J-638	2145.50	Low System	7.64	2269.85	53.91
J-1430	2149.00	Low System	2.32	2273.37	53.92
J-2750	2145.50	Low System	0.19	2269.88	53.92
J-7500	2144.00	Low System	0.00	2268.75	54.08
J-197	2152.00	Low System	0.00	2276.83	54.12
J-573	2151.00	Low System	4.17	2276.83	54.55
J-1620	2146.00	Low System	1.73	2271.87	54.57
J-140	2142.00	Low System	0.00	2267.87	54.57
J-5240	2144.00	Low System	1.15	2269.88	54.57
J-12000	2144.00	Low System	1.35	2270.28	54.74
J-9890	2142.00	Low System	0.00	2268.31	54.76
J-177	2148.80	Low System	0.55	2275.15	54.77
J-1010	2104.00	Merrimac	0.00	2230.39	54.79
J-2740	2143.50	Low System	0.00	2269.90	54.79
J-645	2143.00	Low System	0.00	2269.52	54.85
J-159	2142.00	Low System	11.00	2268.75	54.95
J-9930	2141.00	Low System	0.00	2267.77	54.96
J-7110	2144.50	Low System	1.54	2271.33	54.99
J-179	2148.00	Low System	0.56	2275.20	55.14
J-7150	2144.00	Low System	3.65	2271.33	55.20
J-9760	2144.00	Low System	1.73	2271.34	55.20
J-334	2140.00	Low System	0.00	2267.73	55.37

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-333	2140.00	Low System	0.00	2267.73	55.37
J-9925	2140.00	Low System	12.05	2267.77	55.39
J-113	2140.00	Low System	3.33	2267.83	55.42
J-6250	2143.00	Low System	0.00	2271.02	55.50
J-1000	2104.00	Merrimac	0.00	2232.27	55.61
J-7090	2143.00	Low System	0.77	2271.34	55.64
J-4910	2145.00	Low System	5.88	2273.46	55.69
J-4490	2169.50	Low System	1.42	2298.00	55.71
J-7510	2140.00	Low System	0.00	2268.75	55.82
J-126	2139.00	Low System	5.00	2267.85	55.86
J-141	2139.00	Low System	0.00	2267.87	55.87
J-116	2139.00	Low System	0.00	2267.87	55.87
J-5770	2142.50	Low System	2.11	2271.42	55.89
J-9035	2169.00	Low System	2.83	2298.00	55.92
J-5500	2143.00	Low System	1.54	2272.13	55.98
J-649	2142.00	Low System	5.00	2271.37	56.08
J-670	2168.00	Low System	0.00	2297.53	56.15
J-251	2168.00	Low System	0.00	2297.62	56.19
J-627	2138.00	Low System	2.08	2267.73	56.24
J-196	2147.00	Low System	0.00	2276.83	56.28
J-7190	2141.50	Low System	1.35	2271.36	56.30
J-7000	2141.50	Low System	3.65	2271.36	56.30
J-9900	2138.00	Low System	50.94	2268.12	56.41
J-4210	2141.00	Low System	2.11	2271.36	56.51
J-9155	2141.50	Low System	1.54	2272.13	56.63
J-165	2138.00	Low System	11.00	2268.80	56.70
J-4870	2143.00	Low System	3.27	2274.29	56.92
J-7180	2140.00	Low System	0.96	2271.36	56.95
J-5660	2140.00	Low System	1.73	2271.44	56.98
MJ-9	2123.00	Low System	1008.61	2254.66	57.08
J-227	2139.00	Low System	2.00	2270.77	57.12
J-244	2139.00	Low System	2.00	2270.77	57.12
J-114	2136.00	Low System	0.00	2267.86	57.16
J-589	2164.50	Low System	4.65	2296.66	57.29
J-325	2170.00	Low System	0.00	2302.18	57.30
J-430	2139.00	Low System	7.00	2271.29	57.35
J-9895	2136.00	Low System	6.13	2268.31	57.36
J-7060	2139.00	Low System	0.77	2271.33	57.37
J-2730	2137.50	Low System	0.19	2269.99	57.44
J-9030	2165.50	Low System	4.24	2298.00	57.44
J-273	2165.00	Low System	4.00	2297.55	57.46
MJ-11	2122.00	Low System	1000.00	2254.57	57.47
J-591	2164.00	Low System	0.00	2296.72	57.54
J-590	2164.00	Low System	4.65	2296.72	57.54
J-9140	2144.00	Low System	1.78	2276.83	57.59
J-5230	2140.50	Low System	1.54	2273.39	57.61
J-6480	2137.00	Low System	3.75	2269.99	57.65
J-9335	2141.50	Low System	2.88	2274.52	57.67
MJ-8	2122.00	Low System	0.00	2255.04	57.68
J-176	2141.40	Low System	0.00	2274.56	57.73
J-7640	2135.00	Low System	2.67	2268.16	57.73
J-4120	2135.00	Low System	1.35	2268.31	57.79
MJ-10	2122.00	Low System	0.00	2255.41	57.84
J-2700	2137.00	Low System	2.73	2270.42	57.84
MJ-7	2122.00	Low System	7.22	2255.46	57.86
J-2560	2143.00	Low System	0.00	2276.73	57.98
J-2550	2143.00	Low System	10.99	2276.73	57.98
J-3280	2134.00	Low System	0.00	2267.96	58.07
J-9045	2161.00	Low System	0.00	2295.02	58.10
J-194	2164.00	Low System	0.00	2298.09	58.13
J-112	2133.50	Low System	0.00	2267.86	58.25
J-2170	2137.00	Low System	0.00	2271.37	58.25
MJ-6	2122.00	Low System	0.00	2256.50	58.31
MJ-5	2122.00	Low System	0.00	2256.50	58.31
J-4840	2142.00	Low System	0.77	2276.75	58.42
J-164	2134.00	Low System	11.00	2268.78	58.43
MJ-12	2122.00	Low System	0.00	2256.80	58.44

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-7080	2136.50	Low System	0.77	2271.34	58.45
J-1080	2163.00	Low System	2.11	2298.07	58.56
J-2720	2135.00	Low System	0.38	2270.15	58.59
J-6110	2136.00	Low System	0.58	2271.17	58.60
J-7610	2133.00	Low System	4.04	2268.31	58.66
J-2180	2136.00	Low System	0.00	2271.37	58.69
J-1060	2162.50	Low System	2.79	2298.00	58.74
J-274	2162.00	Low System	4.00	2297.55	58.77
J-9965	2132.00	Low System	1.40	2267.67	58.81
J-161	2133.00	Low System	11.00	2268.76	58.85
J-4770	2141.00	Low System	7.72	2276.84	58.89
J-9585	2134.00	Low System	0.00	2269.90	58.91
J-3390	2132.00	Low System	1.92	2268.00	58.96
J-3290	2132.00	Low System	0.00	2268.01	58.96
J-3270	2132.00	Low System	0.00	2268.01	58.96
J-3260	2132.00	Low System	0.00	2268.01	58.96
MJ-3	2124.00	Low System	0.00	2260.19	59.04
MJ-4	2124.00	Low System	0.00	2260.19	59.04
J-9350	2136.50	Low System	2.69	2273.33	59.32
J-110	2131.00	Low System	3.33	2267.86	59.33
J-648	2134.50	Low System	5.00	2271.37	59.34
J-6490	2133.00	Low System	2.31	2269.99	59.39
J-4540	2158.00	Low System	0.00	2295.02	59.40
J-5210	2136.00	Low System	1.73	2273.02	59.40
J-276	2160.40	Low System	4.00	2297.55	59.46
J-7770	2131.00	Low System	1.73	2268.18	59.47
J-3380	2131.00	Low System	16.34	2268.19	59.47
J-4900	2130.00	Low System	1.47	2267.24	59.50
J-9920	2130.50	Low System	2.04	2267.76	59.51
J-163	2131.50	Low System	11.00	2268.77	59.51
J-639	2132.50	Low System	7.64	2269.85	59.54
J-671	2160.00	Low System	5.00	2297.53	59.62
J-275	2160.00	Low System	4.00	2297.55	59.63
J-269	2160.00	Low System	4.00	2297.58	59.64
J-9330	2137.00	Low System	2.88	2274.69	59.69
J-382	2130.00	Low System	7.64	2267.73	59.71
J-4830	2139.00	Low System	2.68	2276.75	59.72
J-9120	2139.00	Low System	14.52	2276.77	59.73
J-111	2130.00	Low System	3.33	2267.82	59.75
J-9565	2131.50	Low System	2.44	2269.37	59.77
J-5780	2133.50	Low System	4.04	2271.41	59.78
J-3300	2130.00	Low System	14.54	2267.92	59.79
J-4510	2156.00	Low System	4.68	2294.41	60.00
J-646	2132.50	Low System	0.00	2271.37	60.20
J-610	2134.00	Low System	0.69	2273.05	60.28
J-9535	2130.00	Low System	2.51	2269.10	60.30
J-6120	2132.00	Low System	0.00	2271.18	60.34
J-129	2128.50	Low System	5.00	2267.83	60.40
J-4220	2132.00	Low System	0.58	2271.34	60.40
J-7250	2132.00	Low System	0.38	2271.37	60.42
J-4610	2168.00	Low System	0.58	2307.38	60.42
J-11110	2129.50	Low System	2.88	2269.20	60.56
J-115	2128.00	Low System	1.00	2267.86	60.63
J-635	2129.50	Low System	0.00	2269.37	60.64
J-6500	2130.00	Low System	3.75	2269.99	60.69
J-9960	2127.50	Low System	9.06	2267.60	60.74
J-651	2130.00	Low System	2.08	2270.25	60.80
J-9340	2133.00	Low System	4.23	2273.79	61.04
J-7600	2127.50	Low System	0.58	2268.38	61.07
MJ-2	2123.00	Low System	0.00	2264.01	61.13
MJ-1	2123.00	Low System	0.00	2264.01	61.13
J-6080	2130.00	Low System	0.00	2271.18	61.20
J-7630	2127.00	Low System	4.44	2268.18	61.20
J-44	2130.00	Low System	1.00	2271.18	61.20
MJ-13	2126.00	Low System	0.00	2267.20	61.21
MJ-14	2126.00	Low System	0.00	2267.20	61.21
J-3360	2127.00	Low System	2.07	2268.46	61.33

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-3350	2127.00	Low System	0.79	2268.48	61.33
J-254	2156.00	Low System	2.00	2297.62	61.39
J-1420	2132.00	Low System	0.90	2273.98	61.55
J-609	2131.00	Low System	0.00	2273.05	61.58
J-5220	2131.00	Low System	1.35	2273.23	61.66
J-131	2125.50	Low System	5.00	2267.82	61.70
J-7710	2126.00	Low System	0.00	2268.34	61.71
J-7010	2129.00	Low System	1.73	2271.36	61.72
J-647	2129.00	Low System	0.00	2271.37	61.72
J-5650	2130.00	Low System	3.46	2272.39	61.73
J-7700	2126.00	Low System	40.68	2268.45	61.76
J-3610	2126.00	Low System	0.00	2268.48	61.77
J-9025	2155.50	Low System	0.32	2298.07	61.81
J-603	2155.50	Low System	0.00	2298.07	61.81
J-31	2125.00	Low System	0.00	2267.73	61.88
J-373	2150.90	Low System	20.40	2293.89	61.99
J-9970	2124.50	Low System	12.62	2267.58	62.03
J-5760	2128.00	Low System	2.31	2271.40	62.17
J-4640	2165.00	Low System	0.97	2308.43	62.18
J-253	2154.00	Low System	20.00	2297.62	62.26
J-370	2150.00	Low System	0.00	2293.91	62.39
J-428	2154.00	Low System	0.00	2298.01	62.43
J-371	2149.80	Low System	0.00	2293.91	62.47
J-9525	2125.00	Low System	1.54	2269.11	62.48
J-45	2127.00	Low System	1.00	2271.18	62.50
J-7020	2127.00	Low System	0.58	2271.36	62.58
J-7030	2127.00	Low System	1.35	2271.36	62.58
J-9355	2127.00	Low System	0.00	2271.42	62.61
J-11065	2127.00	Low System	0.81	2271.43	62.61
J-6050	2127.00	Low System	0.46	2271.44	62.62
J-372	2149.30	Low System	0.00	2293.91	62.69
J-7760	2123.00	Low System	0.00	2267.92	62.83
J-4905	2122.00	Low System	4.97	2267.19	62.94
J-9560	2124.00	Low System	0.38	2269.32	63.00
J-6600	2124.00	Low System	2.50	2269.32	63.00
J-1630	2126.00	Low System	0.19	2271.55	63.10
J-4750	2131.00	Low System	0.00	2276.84	63.23
J-438	2152.00	Low System	25.81	2297.92	63.26
J-11135	2122.00	Low System	1.73	2268.07	63.33
J-6070	2125.00	Low System	7.09	2271.16	63.36
J-324	2156.00	Low System	0.00	2302.18	63.37
J-556	2125.00	Low System	0.00	2271.28	63.42
J-11085	2124.00	Low System	2.31	2270.29	63.42
J-3250	2121.00	Low System	0.77	2268.02	63.74
J-9915	2121.00	Low System	44.40	2268.14	63.79
J-263	2150.50	Low System	3.00	2297.75	63.84
J-607	2122.00	Low System	1.67	2269.37	63.89
J-1640	2124.00	Low System	3.46	2271.54	63.96
J-9115	2129.00	Low System	2.47	2276.78	64.06
J-9130	2129.00	Low System	6.71	2276.82	64.08
J-117	2120.00	Low System	3.33	2267.85	64.10
J-252	2150.00	Low System	20.00	2297.96	64.14
J-585	2119.00	Low System	2.31	2267.16	64.23
J-262	2149.40	Low System	3.00	2297.75	64.31
J-122	2119.50	Low System	3.33	2267.85	64.31
J-9800	2123.00	Low System	1.35	2271.36	64.32
J-9540	2120.50	Low System	6.15	2269.01	64.38
J-4820	2128.00	Low System	2.49	2276.76	64.49
J-4730	2128.00	Low System	7.72	2276.84	64.53
J-593	2148.00	Low System	4.65	2297.06	64.62
J-1980	2120.00	Low System	0.19	2269.30	64.72
J-7200	2122.00	Low System	1.92	2271.33	64.74
J-9315	2127.00	Low System	27.22	2276.73	64.91
J-118	2118.00	Low System	3.33	2267.85	64.96
J-120	2118.00	Low System	0.00	2267.85	64.96
J-109	2118.00	Low System	3.33	2267.85	64.96
J-3310	2118.00	Low System	1.78	2267.90	64.98

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-255	2148.00	Low System	10.00	2298.00	65.03
J-261	2147.60	Low System	3.00	2297.75	65.10
J-9575	2119.00	Low System	1.73	2269.26	65.14
J-7050	2121.00	Low System	2.11	2271.33	65.17
J-4230	2121.00	Low System	0.77	2271.33	65.17
J-605	2164.00	Low System	0.00	2314.40	65.20
J-9040	2146.00	Low System	0.00	2296.60	65.29
J-9065	2159.00	Low System	1.54	2309.68	65.32
J-9555	2118.50	Low System	1.71	2269.28	65.37
J-204	2126.00	Low System	3.70	2276.83	65.39
J-119	2117.00	Low System	3.33	2267.85	65.40
J-121	2117.00	Low System	3.33	2267.85	65.40
J-411	2118.10	Low System	4.17	2268.99	65.41
J-597	2146.00	Low System	0.00	2297.21	65.55
J-427	2146.00	Low System	0.00	2297.21	65.55
J-5270	2122.00	Low System	0.00	2273.23	65.56
J-9050	2143.00	Low System	0.00	2294.25	65.57
J-9550	2118.00	Low System	0.38	2269.26	65.57
J-173	2118.00	Low System	0.00	2269.26	65.58
J-7720	2118.00	Low System	0.00	2269.27	65.58
J-9795	2120.00	Low System	1.92	2271.35	65.61
J-4620	2156.00	Low System	1.35	2307.38	65.62
J-9325	2124.00	Low System	1.15	2275.51	65.68
J-468	2124.90	Low System	2.00	2276.97	65.93
J-6090	2119.00	Low System	0.00	2271.18	65.97
J-9580	2117.00	Low System	0.00	2269.31	66.03
J-4130	2116.00	Low System	1.15	2268.31	66.03
J-4240	2119.00	Low System	0.00	2271.33	66.04
J-9465	2116.50	Low System	2.79	2269.00	66.11
J-9940	2115.00	Low System	6.92	2267.60	66.15
J-265	2145.00	Low System	3.00	2297.75	66.22
J-266	2145.00	Low System	3.00	2297.75	66.22
J-260	2145.00	Low System	3.00	2297.75	66.22
J-9110	2124.00	Low System	4.56	2276.78	66.23
J-4560	2144.00	Low System	0.00	2296.83	66.25
J-1070	2145.00	Low System	0.77	2298.00	66.33
J-172	2116.00	Low System	20.00	2269.07	66.36
J-586	2114.00	Low System	2.31	2267.16	66.40
J-9775	2118.00	Low System	1.54	2271.33	66.47
J-9955	2114.00	Low System	0.00	2267.49	66.54
J-509	2144.50	Low System	0.00	2298.00	66.54
J-507	2144.50	Low System	0.00	2298.07	66.58
J-508	2144.50	Low System	0.00	2298.07	66.58
J-6060	2117.50	Low System	0.82	2271.17	66.62
J-11090	2116.50	Low System	0.58	2270.25	66.65
J-134	2114.00	Low System	5.00	2267.82	66.68
J-482	2115.00	Low System	0.00	2269.10	66.81
J-481	2115.00	Low System	0.00	2269.10	66.81
J-479	2115.00	Low System	13.05	2269.14	66.82
J-8070	2115.00	Low System	13.05	2269.14	66.82
J-4530	2140.00	Low System	1.35	2294.25	66.87
J-5790	2117.00	Low System	1.92	2271.40	66.94
J-9345	2119.00	Low System	2.69	2273.79	67.11
J-7130	2116.00	Low System	0.00	2271.33	67.34
J-5610	2117.00	Low System	2.11	2272.42	67.38
J-4550	2141.00	Low System	0.00	2296.60	67.46
J-32	2112.00	Low System	1.33	2267.73	67.51
J-264	2142.00	Low System	3.00	2297.76	67.52
J-6470	2114.00	Low System	8.33	2269.90	67.59
J-5520	2117.00	Low System	0.96	2272.97	67.62
J-3470	2111.00	Low System	2.08	2267.16	67.70
MJ-29	2119.00	Low System	11.01	2275.28	67.75
J-523	2119.50	Low System	0.00	2275.91	67.81
J-9530	2112.50	Low System	7.51	2269.13	67.90
J-11130	2111.50	Low System	1.54	2268.18	67.92
J-6440	2113.50	Low System	0.00	2270.28	67.97
J-569	2120.00	Low System	4.17	2276.83	67.99

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-9100	2120.00	Low System	0.00	2277.00	68.06
J-3240	2111.00	Low System	1.35	2268.04	68.08
J-8050	2110.00	Low System	0.19	2267.16	68.13
J-9380	2114.00	Low System	0.77	2271.40	68.24
J-1650	2114.00	Low System	5.77	2271.43	68.25
J-9365	2113.00	Low System	2.81	2270.67	68.35
J-1670	2113.50	Low System	0.19	2271.17	68.35
J-1660	2113.50	Low System	0.00	2271.18	68.36
J-258	2140.00	Low System	3.00	2297.76	68.39
J-295	2140.00	Low System	0.00	2297.77	68.39
MJ-17	2117.30	Low System	11.07	2275.18	68.45
J-10015	2109.00	Low System	0.00	2267.20	68.58
J-135	2109.50	Low System	5.00	2267.81	68.63
J-4140	2110.00	Low System	1.92	2268.32	68.63
J-4630	2150.00	Low System	0.00	2308.43	68.68
J-189	2156.00	Low System	0.00	2314.73	68.81
J-257	2139.00	Low System	0.00	2297.76	68.82
J-439	2110.00	Low System	1.20	2268.99	68.93
J-7950	2109.00	Low System	1.92	2268.00	68.93
J-7920	2109.00	Low System	1.15	2268.00	68.93
J-4860	2116.00	Low System	1.29	2275.06	68.96
J-599	2138.00	Low System	15.67	2297.21	69.02
J-296	2138.50	Low System	5.00	2297.76	69.04
J-9485	2111.00	Low System	5.98	2270.27	69.05
J-4150	2109.00	Low System	0.00	2268.32	69.07
J-9945	2108.00	Low System	12.02	2267.49	69.14
J-297	2138.20	Low System	0.00	2297.76	69.17
J-6340	2110.50	Low System	3.43	2270.27	69.27
J-20020	2135.00	Low System	7.26	2294.78	69.27
J-6310	2110.50	Low System	4.93	2270.44	69.34
J-209	2155.00	Low System	0.00	2315.06	69.39
MJ-15	2115.00	Low System	0.00	2275.10	69.41
J-1410	2115.00	Low System	0.34	2275.13	69.42
J-1400	2115.00	Low System	0.08	2275.16	69.43
J-6100	2111.00	Low System	0.56	2271.17	69.44
MJ-16	2115.00	Low System	0.00	2275.18	69.44
J-3590	2155.00	Low System	0.00	2315.18	69.44
J-431	2111.00	Low System	0.00	2271.30	69.49
J-11070	2112.00	Low System	0.00	2272.39	69.53
J-604	2154.00	Low System	0.00	2314.40	69.54
J-180	2155.00	Low System	0.00	2315.46	69.56
J-3400	2107.00	Low System	5.38	2267.72	69.67
J-7910	2107.00	Low System	2.31	2268.00	69.79
J-186	2154.00	Low System	0.00	2315.07	69.83
J-7070	2110.00	Low System	2.11	2271.33	69.94
J-4215	2110.00	Low System	0.00	2271.35	69.95
J-7960	2106.00	Low System	4.50	2267.39	69.96
J-606	2153.00	Low System	0.00	2314.40	69.97
J-9950	2106.00	Low System	34.35	2267.45	69.99
J-10000	2106.50	Low System	0.38	2268.01	70.02
J-505	2136.50	Low System	4.86	2298.01	70.02
J-8040	2105.50	Low System	24.28	2267.20	70.10
J-8000	2105.50	Low System	0.00	2267.22	70.11
J-33	2106.00	Low System	1.33	2267.73	70.11
J-298	2136.00	Low System	5.00	2297.76	70.13
J-7040	2109.50	Low System	0.77	2271.33	70.16
J-4580	2136.00	Low System	0.38	2297.89	70.18
J-592	2135.00	Low System	4.65	2296.91	70.19
J-3230	2106.00	Low System	0.38	2268.05	70.25
MJ-23	2113.20	Low System	7.64	2275.28	70.26
MJ-25	2113.20	Low System	3.43	2275.28	70.26
J-7810	2106.00	Low System	2.59	2268.20	70.32
J-6430	2108.00	Low System	2.08	2270.28	70.35
MJ-28	2113.00	Low System	0.00	2275.28	70.35
MJ-27	2113.00	Low System	0.00	2275.28	70.35
J-7140	2109.00	Low System	0.38	2271.33	70.38
J-3370	2106.00	Low System	3.16	2268.34	70.38

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-1790	2106.50	Low System	11.40	2269.11	70.49
J-4850	2114.00	Low System	1.11	2276.64	70.51
J-2440	2139.50	Low System	0.23	2302.18	70.53
J-5900	2110.00	Low System	1.35	2272.71	70.54
J-5600	2110.00	Low System	0.38	2272.75	70.56
J-7240	2108.50	Low System	2.11	2271.37	70.61
MJ-22	2112.40	Low System	9.07	2275.27	70.61
J-12060	2105.00	Low System	0.58	2267.95	70.64
MJ-35	2112.20	Low System	23.18	2275.39	70.74
MJ-36	2112.20	Low System	7.01	2275.39	70.75
MJ-18	2112.00	Low System	0.00	2275.27	70.78
MJ-19	2112.00	Low System	0.00	2275.27	70.78
MJ-20	2112.00	Low System	0.00	2275.27	70.78
MJ-21	2112.00	Low System	0.00	2275.27	70.78
MJ-24	2112.00	Low System	0.00	2275.28	70.78
MJ-26	2112.00	Low System	0.00	2275.28	70.79
MJ-30	2112.00	Low System	0.00	2275.32	70.80
MJ-31	2112.00	Low System	0.00	2275.32	70.80
MJ-62	2112.00	Low System	13.66	2275.34	70.81
MJ-61	2112.00	Low System	0.00	2275.35	70.81
J-598	2134.00	Low System	0.00	2297.35	70.82
MJ-32	2112.00	Low System	0.00	2275.37	70.83
MJ-33	2112.00	Low System	0.00	2275.37	70.83
MJ-34	2112.00	Low System	0.00	2275.39	70.83
J-9975	2104.00	Low System	0.00	2267.54	70.90
J-6260	2107.00	Low System	0.77	2270.72	70.97
MJ-37	2111.60	Low System	27.78	2275.42	71.02
MJ-60	2111.60	Low System	5.73	2275.45	71.03
J-9460	2105.00	Low System	2.28	2269.09	71.14
J-6320	2106.50	Low System	5.01	2270.68	71.17
J-4930	2105.00	Low System	0.00	2269.19	71.18
J-9490	2106.00	Low System	0.00	2270.28	71.22
J-231	2107.00	Low System	5.00	2271.31	71.23
J-412	2104.60	Low System	6.25	2268.96	71.25
J-243	2108.00	Low System	0.00	2272.55	71.34
J-223	2108.00	Low System	3.00	2272.55	71.34
J-1800	2104.50	Low System	9.23	2269.11	71.36
J-10080	2102.50	Low System	1.15	2267.13	71.37
J-10075	2102.50	Low System	1.54	2267.13	71.37
MJ-41	2110.80	Low System	11.39	2275.52	71.41
MJ-42	2110.80	Low System	15.56	2275.55	71.42
MJ-57	2110.70	Low System	3.41	2275.54	71.46
J-4740	2112.00	Low System	0.00	2276.85	71.47
J-467	2112.00	Low System	0.00	2276.97	71.52
MJ-55	2110.70	Low System	5.41	2275.68	71.52
J-6300	2105.50	Low System	3.99	2270.60	71.58
J-2200	2104.00	Low System	0.00	2269.16	71.60
J-3340	2103.50	Low System	4.23	2268.66	71.60
J-6330	2105.50	Low System	5.13	2270.68	71.61
J-433	2106.00	Low System	7.00	2271.30	71.66
MJ-59	2110.00	Low System	0.00	2275.45	71.73
MJ-58	2110.00	Low System	0.00	2275.45	71.73
MJ-39	2110.00	Low System	0.00	2275.46	71.73
MJ-38	2110.00	Low System	0.00	2275.46	71.73
J-9395	2109.00	Low System	9.14	2274.51	71.75
MJ-40	2110.00	Low System	0.00	2275.52	71.76
MJ-56	2110.00	Low System	0.00	2275.54	71.77
MJ-43	2110.00	Low System	0.00	2275.58	71.78
MJ-44	2110.00	Low System	0.00	2275.58	71.78
J-53	2103.20	Low System	2.50	2269.04	71.89
J-4290	2099.00	Low System	0.00	2264.85	71.90
J-2320	2099.00	Low System	0.00	2264.85	71.90
J-4760	2111.00	Low System	0.00	2276.86	71.90
J-9085	2111.00	Low System	8.11	2276.89	71.91
J-9055	2128.00	Low System	0.00	2294.03	71.98
J-2760	2103.50	Low System	5.45	2269.55	71.99
J-7990	2101.00	Low System	0.00	2267.22	72.06

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated	
				Hydraulic Grade (ft)	Pressure (psi)
J-7980	2101.00	Low System	8.66	2267.22	72.06
J-5590	2106.50	Low System	0.96	2272.75	72.07
J-9480	2104.00	Low System	2.99	2270.27	72.08
J-178	2109.00	Low System	0.00	2275.31	72.10
MJ-47	2109.30	Low System	12.67	2275.84	72.20
MJ-49	2109.30	Low System	22.39	2275.84	72.20
J-241	2106.00	Low System	0.00	2272.55	72.20
J-6420	2103.50	Low System	0.00	2270.28	72.30
J-504	2131.20	Low System	4.86	2298.01	72.32
J-9000	2151.00	Low System	3.51	2317.84	72.33
J-1040	2151.00	Low System	27.39	2317.84	72.33
J-9135	2110.00	Low System	4.13	2276.86	72.34
J-9995	2101.00	Low System	2.50	2268.01	72.40
J-4520	2127.00	Low System	0.00	2294.03	72.41
J-2940	2102.00	Low System	0.38	2269.16	72.46
J-2410	2135.00	Low System	3.22	2302.18	72.48
J-1970	2102.00	Low System	29.84	2269.22	72.49
J-1130	2108.00	Low System	0.00	2275.26	72.51
J-9985	2101.00	Low System	2.69	2268.27	72.51
J-11075	2105.50	Low System	4.40	2273.00	72.61
MJ-53	2108.00	Low System	0.00	2275.76	72.73
MJ-54	2108.00	Low System	0.00	2275.76	72.73
J-570	2109.00	Low System	4.17	2276.83	72.76
J-4310	2150.00	Low System	0.37	2317.84	72.76
J-4320	2150.00	Low System	6.92	2317.84	72.76
J-2330	2096.50	Low System	0.13	2264.75	72.94
J-2300	2097.00	Low System	0.00	2265.33	72.97
J-222	2104.00	Low System	0.00	2272.55	73.07
J-6410	2101.50	Low System	0.00	2270.27	73.17
MJ-51	2107.00	Low System	0.00	2275.80	73.18
J-1030	2149.50	Low System	36.61	2318.40	73.22
J-9520	2100.00	Low System	4.19	2269.14	73.32
J-429	2102.00	Low System	7.00	2271.30	73.40
J-9785	2102.00	Low System	0.96	2271.33	73.41
J-4650	2140.00	Low System	1.54	2309.68	73.56
J-34	2098.00	Low System	1.33	2267.73	73.58
J-9320	2106.50	Low System	1.92	2276.42	73.66
J-1960	2099.00	Low System	0.61	2269.19	73.78
J-2780	2099.00	Low System	7.30	2269.23	73.80
J-9475	2100.00	Low System	2.99	2270.27	73.82
J-8500	2095.00	Low System	1.07	2265.31	73.83
J-9980	2098.00	Low System	1.35	2268.34	73.85
J-5800	2101.00	Low System	0.58	2271.40	73.87
J-301	2095.00	Low System	0.00	2265.45	73.89
J-8370	2095.00	Low System	0.38	2265.45	73.89
J-2290	2095.00	Low System	21.78	2265.45	73.89
J-51	2098.30	Low System	2.50	2269.04	74.02
J-306	2106.00	Low System	0.00	2276.84	74.06
J-4720	2106.00	Low System	13.00	2276.84	74.06
J-5840	2100.50	Low System	0.43	2271.48	74.12
J-313	2096.00	Low System	6.00	2267.13	74.19
J-426	2096.00	Low System	4.91	2267.16	74.20
J-424	2096.00	Low System	2.60	2267.16	74.20
J-423	2096.00	Low System	2.60	2267.16	74.20
J-1020	2148.00	Low System	27.58	2319.21	74.22
J-8380	2094.00	Low System	1.88	2265.31	74.26
J-5810	2100.00	Low System	0.00	2271.36	74.29
J-9990	2096.50	Low System	2.50	2268.01	74.35
J-9780	2099.50	Low System	2.50	2271.33	74.49
J-309	2105.00	Low System	12.00	2276.84	74.50
J-5820	2099.50	Low System	0.00	2271.36	74.51
J-1810	2097.00	Low System	10.14	2268.98	74.56
J-1950	2097.00	Low System	0.00	2269.18	74.64
J-6040	2103.00	Low System	3.39	2275.26	74.68
MJ-52	2103.50	Low System	15.24	2275.80	74.70
J-242	2100.00	Low System	0.00	2272.55	74.80
J-2340	2092.00	Low System	0.00	2264.69	74.87

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-10165	2092.00	Low System	0.00	2264.69	74.87
J-1680	2098.00	Low System	1.45	2270.77	74.90
MJ-46	2103.00	Low System	0.00	2275.77	74.90
MJ-45	2103.00	Low System	0.00	2275.77	74.90
J-9790	2098.50	Low System	0.58	2271.31	74.91
MJ-48	2103.00	Low System	0.00	2275.84	74.93
MJ-50	2103.00	Low System	0.00	2275.92	74.96
J-4810	2104.50	Low System	0.00	2277.47	74.99
J-20010	2100.00	Low System	707.44	2273.02	75.01
J-4570	2124.50	Low System	0.00	2297.53	75.01
J-3220	2095.00	Low System	0.96	2268.05	75.02
J-323	2129.00	Low System	2.00	2302.18	75.08
J-1150	2100.00	Low System	0.00	2273.24	75.10
J-2770	2096.00	Low System	2.12	2269.48	75.21
J-7890	2094.50	Low System	3.07	2267.99	75.21
J-3210	2094.50	Low System	0.58	2268.06	75.24
J-128	2094.00	Low System	5.00	2267.81	75.35
J-6240	2096.50	Low System	0.59	2270.73	75.53
J-10025	2100.00	Low System	0.84	2274.49	75.64
J-3620	2094.00	Low System	0.00	2268.77	75.77
J-4440	2109.00	Low System	0.03	2284.19	75.95
J-10105	2090.00	Low System	0.76	2265.22	75.96
J-7970	2092.00	Low System	5.15	2267.23	75.96
J-6360	2095.00	Low System	0.77	2270.27	75.98
J-9375	2095.00	Low System	15.90	2270.29	75.99
J-7230	2096.00	Low System	0.58	2271.32	76.01
J-9390	2099.00	Low System	2.66	2274.45	76.06
J-20030	2093.00	Low System	118.04	2268.64	76.14
J-6290	2095.00	Low System	0.58	2270.68	76.16
J-9125	2101.00	Low System	4.39	2276.87	76.24
J-1390	2100.00	Low System	5.98	2276.07	76.33
J-501	2093.00	Low System	0.00	2269.10	76.34
J-1940	2093.00	Low System	6.50	2269.12	76.35
J-2950	2093.00	Low System	0.00	2269.12	76.35
J-2420	2126.00	Low System	0.00	2302.18	76.38
J-230	2095.00	Low System	5.00	2271.31	76.43
J-1780	2093.00	Low System	2.36	2269.47	76.50
J-2790	2092.50	Low System	9.59	2269.15	76.58
J-1090	2117.00	Low System	2.39	2293.83	76.66
J-191	2128.00	Low System	0.00	2304.93	76.70
J-4590	2128.00	Low System	1.73	2304.98	76.72
J-10005	2090.50	Low System	0.00	2267.54	76.75
J-20040	2089.00	Low System	12.52	2266.16	76.80
J-232	2094.00	Low System	5.00	2271.31	76.87
J-6590	2092.00	Low System	0.00	2269.39	76.90
J-10170	2087.00	Low System	0.00	2264.60	76.99
J-10090	2089.50	Low System	0.19	2267.14	77.01
J-10030	2091.00	Low System	0.00	2268.85	77.10
J-381	2114.50	Low System	0.00	2292.41	77.13
J-1820	2091.00	Low System	2.02	2268.93	77.14
J-1930	2091.00	Low System	1.86	2268.95	77.15
J-188	2136.00	Low System	0.00	2313.98	77.16
J-529	2091.00	Low System	0.00	2268.98	77.16
J-8390	2087.00	Low System	0.86	2265.29	77.29
J-9405	2093.50	Low System	0.00	2272.00	77.38
J-10060	2089.00	Low System	0.58	2267.67	77.46
J-7900	2089.00	Low System	1.35	2267.99	77.59
J-7930	2089.00	Low System	1.73	2268.00	77.60
J-2430	2123.00	Low System	0.30	2302.18	77.68
J-10100	2086.00	Low System	2.88	2265.22	77.69
J-10350	2088.00	Low System	0.63	2267.28	77.72
J-2350	2085.00	Low System	0.00	2264.60	77.86
J-8200	2087.50	Low System	1.35	2267.13	77.87
J-2260	2088.00	Low System	0.00	2267.67	77.89
J-4710	2097.00	Low System	1.92	2276.86	77.97
J-11225	2087.00	Low System	1.92	2267.11	78.08
J-3480	2087.00	Low System	4.04	2267.14	78.09

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-384	2087.00	Low System	1.00	2267.47	78.24
J-5580	2096.00	Low System	0.95	2276.50	78.25
J-10035	2088.00	Low System	8.79	2268.75	78.36
J-130	2087.00	Low System	0.00	2267.82	78.39
J-4690	2096.00	Low System	0.58	2276.86	78.41
J-1340	2100.00	Low System	0.38	2281.07	78.50
J-4790	2100.00	Low System	0.00	2281.07	78.50
J-3500	2086.00	Low System	0.58	2267.14	78.53
J-2360	2083.00	Low System	0.00	2264.58	78.72
J-24000	2090.00	Low System	0.00	2271.69	78.77
J-9495	2088.50	Low System	1.78	2270.27	78.80
J-9470	2087.00	Low System	1.35	2268.98	78.89
J-9385	2092.50	Low System	9.96	2274.49	78.90
J-6280	2088.50	Low System	1.18	2270.55	78.92
J-1220	2116.00	Low System	0.00	2298.15	78.97
J-425	2085.00	Low System	2.60	2267.16	78.97
J-517	2085.00	Low System	5.10	2267.20	78.99
J-8030	2085.00	Low System	0.00	2267.20	78.99
J-8400	2083.00	Low System	5.49	2265.26	79.01
J-3420	2085.00	Low System	3.89	2267.28	79.02
J-5830	2089.00	Low System	0.77	2271.44	79.09
J-5880	2089.50	Low System	0.00	2272.00	79.12
J-5860	2089.00	Low System	0.59	2271.63	79.17
J-5870	2089.00	Low System	3.15	2271.63	79.17
J-5890	2089.50	Low System	0.96	2272.16	79.19
J-9105	2094.20	Low System	2.03	2276.89	79.20
J-1770	2086.50	Low System	4.91	2269.66	79.41
J-11205	2084.00	Low System	0.00	2267.39	79.50
J-9400	2088.50	Low System	1.59	2272.00	79.55
J-192	2120.00	Low System	0.00	2303.55	79.57
J-3490	2083.50	Low System	0.58	2267.14	79.61
J-1570	2118.50	Low System	0.21	2302.18	79.63
J-9450	2086.00	Low System	2.50	2269.76	79.66
J-9095	2093.00	Low System	3.15	2277.00	79.77
J-2280	2083.00	Low System	4.95	2267.06	79.79
J-1560	2118.00	Low System	1.16	2302.18	79.85
J-432	2087.00	Low System	0.00	2271.31	79.90
J-461	2131.00	Low System	8.00	2315.46	79.97
J-6030	2090.00	Low System	3.55	2274.52	79.99
J-453	2131.00	Low System	8.00	2315.56	80.01
J-454	2131.00	Low System	0.00	2315.56	80.01
J-3100	2080.00	Low System	0.00	2264.56	80.01
J-462	2131.00	Low System	8.00	2315.62	80.04
J-3320	2083.00	Low System	0.00	2267.72	80.08
J-8410	2080.50	Low System	0.00	2265.24	80.09
J-3460	2082.50	Low System	1.15	2267.25	80.09
J-133	2083.00	Low System	5.00	2267.81	80.12
J-463	2131.00	Low System	8.00	2315.87	80.15
MJ-64	2092.60	Low System	4.48	2277.58	80.19
J-9415	2085.50	Low System	1.26	2270.61	80.25
J-10115	2080.00	Low System	4.04	2265.15	80.27
J-1330	2099.00	Low System	0.10	2284.19	80.28
J-460	2130.00	Low System	8.00	2315.19	80.28
J-10070	2082.00	Low System	0.00	2267.23	80.30
J-228	2086.00	Low System	0.00	2271.31	80.33
J-229	2086.00	Low System	0.00	2271.31	80.34
J-366	2082.50	Low System	5.00	2267.81	80.34
J-139	2082.50	Low System	0.00	2267.82	80.34
MJ-63	2091.00	Low System	0.00	2276.52	80.43
J-3325	2082.00	Low System	3.50	2267.80	80.55
J-6350	2084.00	Low System	2.43	2270.08	80.67
J-312	2081.00	Low System	7.00	2267.13	80.69
J-465	2130.00	Low System	8.00	2316.14	80.69
J-21000	2085.50	Low System	0.00	2271.69	80.72
J-7940	2081.50	Low System	0.77	2268.00	80.85
J-10150	2078.00	Low System	0.00	2264.54	80.87
J-46	2084.00	Low System	0.00	2270.62	80.90

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-20000	2089.00	Low System	210.23	2275.68	80.93
J-10065	2080.50	Low System	0.00	2267.23	80.95
J-5525	2088.00	Low System	0.38	2274.76	80.96
J-1760	2083.00	Low System	3.36	2269.76	80.96
J-1920	2082.00	Low System	7.46	2268.94	81.04
J-12010	2081.00	Low System	1.54	2267.96	81.05
J-4340	2115.00	Low System	243.39	2302.12	81.12
J-1550	2115.00	Low System	0.00	2302.18	81.15
J-214	2115.00	Low System	0.00	2302.19	81.15
J-3450	2080.00	Low System	4.90	2267.24	81.17
J-7790	2081.00	Low System	20.48	2268.51	81.29
J-10160	2077.00	Low System	22.35	2264.53	81.30
J-5850	2084.00	Low System	2.63	2271.54	81.30
J-6270	2083.00	Low System	1.46	2270.63	81.34
J-625	2120.00	Low System	5.79	2307.73	81.38
J-9090	2089.00	Low System	15.64	2277.03	81.52
J-11230	2079.00	Low System	1.15	2267.05	81.53
J-8360	2079.00	Low System	0.00	2267.14	81.56
J-451	2126.50	Low System	0.00	2314.98	81.71
J-452	2126.50	Low System	8.00	2314.98	81.71
J-195	2109.00	Low System	0.00	2297.53	81.73
J-221	2128.00	Low System	4.00	2316.58	81.75
J-594	2078.50	Low System	0.53	2267.23	81.82
J-9515	2080.00	Low System	6.45	2268.94	81.91
J-666	2078.10	Low System	10.00	2267.05	81.91
J-667	2077.90	Low System	1.00	2267.05	82.00
J-15	2140.00	Low System	0.00	2329.20	82.02
J-521	2078.00	Low System	0.00	2267.20	82.02
J-8420	2076.00	Low System	0.00	2265.22	82.03
J-9500	2081.00	Low System	1.73	2270.27	82.05
J-555	2082.00	Low System	1.16	2271.28	82.06
J-642	2082.00	Low System	2.90	2271.28	82.06
J-10010	2078.00	Low System	1.92	2267.39	82.10
J-668	2077.50	Low System	10.00	2267.05	82.17
J-3440	2077.50	Low System	0.80	2267.23	82.25
J-1120	2086.00	Low System	0.00	2275.74	82.26
J-3410	2077.50	Low System	24.54	2267.39	82.32
J-1910	2079.00	Low System	0.38	2268.93	82.34
J-459	2125.00	Low System	8.00	2314.94	82.34
J-5530	2074.50	Low System	2.11	2264.45	82.35
J-344	2087.00	Low System	3.33	2276.99	82.37
J-9440	2079.50	Low System	2.11	2269.50	82.37
J-8350	2077.00	Low System	0.19	2267.14	82.43
J-3510	2077.00	Low System	0.96	2267.14	82.43
J-4330	2112.00	Low System	1.58	2302.18	82.45
J-278	2117.00	Low System	10.00	2307.30	82.50
J-365	2077.50	Low System	8.50	2267.81	82.50
J-138	2077.50	Low System	5.00	2267.81	82.50
J-4800	2089.00	Low System	0.00	2279.40	82.54
J-1360	2089.00	Low System	0.00	2279.48	82.58
J-10155	2074.00	Low System	3.93	2264.54	82.60
J-1350	2089.00	Low System	0.00	2279.54	82.60
J-7830	2077.50	Low System	0.96	2268.05	82.61
J-10145	2074.00	Low System	0.39	2264.56	82.61
J-368	2100.00	Low System	0.00	2290.70	82.67
J-1380	2086.00	Low System	4.74	2276.95	82.78
J-11195	2076.50	Low System	4.61	2267.53	82.81
J-4350	2107.00	Low System	1.55	2298.15	82.87
J-10140	2074.00	Low System	2.69	2265.16	82.87
J-553	2080.00	Low System	6.90	2271.28	82.92
J-8510	2073.50	Low System	0.00	2264.85	82.95
J-11210	2075.50	Low System	2.31	2267.13	83.08
J-8220	2075.50	Low System	0.19	2267.13	83.08
J-2370	2072.50	Low System	2.75	2264.55	83.26
J-10260	2072.50	Low System	0.00	2264.55	83.26
J-4300	2072.50	Low System	0.00	2264.55	83.26
J-665	2075.00	Low System	10.00	2267.05	83.26

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-9410	2078.50	Low System	0.00	2270.63	83.29
J-3520	2075.00	Low System	2.50	2267.14	83.30
J-5910	2079.00	Low System	1.14	2271.14	83.30
J-9060	2100.00	Low System	0.00	2292.22	83.33
J-4500	2100.00	Low System	7.25	2292.22	83.33
J20	2137.20	Low System	0.00	2329.68	83.45
J-26	2075.00	Low System	1.00	2267.49	83.45
J-25	2075.00	Low System	1.00	2267.49	83.45
J-3040	2072.50	Low System	3.59	2264.99	83.45
J-193	2110.00	Low System	0.00	2302.51	83.46
J-1100	2099.50	Low System	0.00	2292.06	83.48
J-3430	2074.50	Low System	0.00	2267.22	83.55
J-8430	2072.00	Low System	0.00	2265.21	83.76
J-9425	2077.00	Low System	1.15	2270.29	83.80
J-10020	2086.00	Low System	0.00	2279.40	83.84
J-2190	2075.00	Low System	0.00	2268.45	83.86
J-8640	2071.00	Low System	0.00	2264.51	83.89
J-1690	2077.00	Low System	0.00	2270.63	83.94
J-5930	2077.00	Low System	0.96	2270.67	83.96
J-11120	2075.00	Low System	1.54	2268.71	83.98
J-348	2083.00	Low System	0.00	2277.00	84.10
J-352	2083.00	Low System	0.00	2277.00	84.10
J-8020	2073.00	Low System	0.00	2267.05	84.12
J-1110	2083.00	Low System	0.00	2277.05	84.13
J-492	2108.00	Low System	0.00	2302.18	84.18
J-10085	2073.00	Low System	31.21	2267.21	84.20
J-8010	2073.00	Low System	0.00	2267.22	84.20
J-554	2077.00	Low System	0.00	2271.28	84.22
J-502	2076.00	Low System	0.69	2270.29	84.23
J-1900	2074.50	Low System	5.92	2268.91	84.28
J-456	2122.00	Low System	0.00	2316.58	84.35
J-6380	2075.50	Low System	1.54	2270.08	84.35
J-1140	2080.00	Low System	3.83	2274.60	84.36
J-10135	2070.50	Low System	4.04	2265.16	84.39
J-8490	2070.50	Low System	3.63	2265.24	84.42
J-7800	2073.50	Low System	5.00	2268.38	84.48
J-346	2082.00	Low System	0.00	2277.00	84.54
J-345	2082.00	Low System	3.33	2277.00	84.54
J-299	2075.00	Low System	0.00	2270.27	84.65
J-9370	2075.00	Low System	2.51	2270.30	84.67
J-464	2121.00	Low System	8.00	2316.39	84.70
J-305	2070.00	Low System	8.50	2265.44	84.73
J-5	2072.00	Low System	1.00	2267.49	84.75
J-8650	2069.00	Low System	0.00	2264.51	84.76
J-1830	2073.00	Low System	0.66	2268.89	84.92
J-353	2081.00	Low System	0.00	2277.00	84.97
J-8630	2068.50	Low System	2.89	2264.51	84.97
J-248	2068.50	Low System	0.00	2264.51	84.97
J-6390	2074.00	Low System	4.01	2270.08	85.00
J-516	2071.00	Low System	0.69	2267.13	85.03
J-2270	2071.00	Low System	0.11	2267.22	85.07
J-644	2075.00	Low System	1.74	2271.28	85.09
J-5920	2074.50	Low System	2.88	2270.91	85.15
J-303	2069.00	Low System	9.50	2265.44	85.16
J-455	2120.00	Low System	8.00	2316.52	85.19
J-3200	2071.50	Low System	3.56	2268.09	85.22
J-1700	2074.00	Low System	0.95	2270.61	85.24
J-2310	2068.50	Low System	0.00	2265.14	85.25
J-10055	2072.00	Low System	0.58	2268.69	85.27
J-1890	2072.00	Low System	4.02	2268.91	85.36
J-6450	2073.00	Low System	8.67	2269.96	85.39
J-349	2080.00	Low System	3.33	2277.00	85.40
J-351	2080.00	Low System	3.33	2277.00	85.40
J-4480	2080.00	Low System	8.11	2277.00	85.40
J-8230	2070.00	Low System	1.15	2267.14	85.46
J-5560	2079.00	Low System	0.00	2276.24	85.51
J-302	2068.00	Low System	0.00	2265.44	85.59

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-304	2068.00	Low System	0.00	2265.44	85.59
J-410	2071.50	Low System	3.50	2268.94	85.59
J-3110	2067.00	Low System	0.00	2264.54	85.64
J-369	2093.10	Low System	0.00	2290.70	85.66
J-624	2110.00	Low System	5.79	2307.73	85.72
J-458	2117.00	Low System	8.00	2314.83	85.76
J18	2137.20	Low System	0.00	2335.03	85.76
J-1840	2071.00	Low System	4.05	2268.89	85.79
J-347	2079.00	Low System	3.33	2277.00	85.84
J-4470	2079.00	Low System	0.00	2277.00	85.84
J-7860	2070.00	Low System	1.22	2268.02	85.84
J-1230	2100.00	Low System	0.00	2298.15	85.90
J-4360	2100.00	Low System	0.00	2298.15	85.90
J-380	2092.50	Low System	0.00	2290.70	85.92
J-8480	2067.00	Low System	1.76	2265.21	85.93
J-300	2072.00	Low System	35.00	2270.26	85.95
J-225	2070.00	Low System	5.00	2268.33	85.98
J-1880	2070.50	Low System	1.62	2268.90	86.01
J-10180	2066.00	Low System	0.00	2264.45	86.03
J-367	2092.00	Low System	6.50	2290.69	86.14
J-308	2071.50	Low System	0.00	2270.45	86.25
J-4460	2078.00	Low System	0.00	2277.01	86.27
J-11080	2071.50	Low System	1.42	2270.52	86.28
J-362	2065.30	Low System	0.00	2264.41	86.32
J-58	2068.00	Low System	3.10	2267.13	86.33
J-10130	2066.00	Low System	3.46	2265.16	86.34
J16	2137.20	Low System	0.00	2336.38	86.35
J-8440	2066.00	Low System	1.54	2265.21	86.36
J-522	2068.00	Low System	0.00	2267.24	86.37
J-518	2068.00	Low System	5.10	2267.24	86.37
J-1850	2069.50	Low System	0.19	2268.89	86.44
J-11200	2068.00	Low System	3.46	2267.40	86.44
J-385	2068.00	Low System	0.00	2267.47	86.48
J-10280	2065.00	Low System	0.00	2264.51	86.49
J-10265	2065.00	Low System	3.28	2264.51	86.49
J-2380	2065.00	Low System	0.38	2264.51	86.49
J-10270	2065.00	Low System	0.87	2264.52	86.50
J-1530	2105.00	Low System	9.44	2304.57	86.52
J-2960	2065.50	Low System	0.00	2265.14	86.55
J-212	2105.00	Low System	0.00	2304.69	86.57
J-9510	2069.00	Low System	2.64	2268.90	86.66
J-361	2064.50	Low System	0.00	2264.45	86.68
J-422	2067.00	Low System	8.00	2267.12	86.76
J-5510	2076.00	Low System	0.00	2276.19	86.79
J-5550	2076.00	Low System	0.96	2276.24	86.81
J-290	2064.00	Low System	8.00	2264.41	86.88
J-360	2064.00	Low System	0.00	2264.44	86.90
J-7870	2067.50	Low System	2.11	2268.00	86.92
J-10110	2064.50	Low System	2.31	2265.15	86.98
J-9435	2069.00	Low System	3.19	2269.76	87.03
J-9505	2067.50	Low System	1.54	2268.90	87.31
J-10120	2063.50	Low System	2.11	2265.15	87.42
J-1870	2067.00	Low System	0.00	2268.89	87.52
J-1860	2067.00	Low System	0.00	2268.89	87.53
J-8180	2065.00	Low System	0.96	2267.13	87.63
J-8240	2065.00	Low System	1.35	2267.14	87.63
J-10290	2062.00	Low System	4.20	2264.42	87.75
J-250	2062.00	Low System	10.00	2264.43	87.76
J-249	2062.00	Low System	0.00	2264.44	87.76
J-24	2065.00	Low System	1.00	2267.49	87.78
J-10330	2062.00	Low System	0.87	2264.50	87.79
J-10275	2062.00	Low System	0.00	2264.50	87.79
J-5540	2073.50	Low System	0.00	2276.19	87.87
J-340	2126.00	Low System	0.00	2328.72	87.88
J-363	2061.00	Low System	110.00	2263.88	87.95
J-10305	2061.50	Low System	4.20	2264.42	87.97
J-8120	2064.00	Low System	1.15	2267.13	88.06

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-676	2065.00	Low System	0.00	2268.39	88.17
J-2210	2065.00	Low System	1.54	2268.39	88.17
J-5570	2073.00	Low System	0.00	2276.50	88.22
J-1370	2074.00	Low System	1.96	2277.62	88.27
J-184	2110.00	Low System	0.00	2313.69	88.30
J-7780	2065.00	Low System	1.15	2268.82	88.36
J-1250	2094.00	Low System	0.00	2298.12	88.49
J-4400	2094.00	Low System	0.00	2298.12	88.49
J-11125	2064.00	Low System	10.32	2268.18	88.52
J-8450	2061.00	Low System	3.29	2265.20	88.52
J-358	2060.11	Low System	0.00	2264.32	88.53
J-246	2064.00	Low System	5.00	2268.35	88.59
J-10200	2060.00	Low System	0.00	2264.39	88.61
J-3120	2060.00	Low System	0.00	2264.53	88.67
J-4450	2072.00	Low System	3.48	2277.01	88.88
J-377	2059.20	Low System	0.00	2264.30	88.91
J-552	2066.00	Low System	0.00	2271.28	88.99
J-10190	2059.00	Low System	48.54	2264.39	89.04
J-7820	2063.00	Low System	9.51	2268.44	89.06
J-9005	2096.50	Low System	2.92	2302.18	89.17
J-8520	2058.00	Low System	0.00	2264.08	89.34
J-359	2058.00	Low System	0.00	2264.39	89.47
J-322	2058.00	Low System	3.00	2264.42	89.49
J-10185	2058.00	Low System	29.41	2264.42	89.49
J-5950	2063.50	Low System	6.33	2270.13	89.58
J-8460	2058.50	Low System	1.69	2265.19	89.61
J-6460	2063.00	Low System	1.54	2269.94	89.71
J-6400	2063.00	Low System	0.86	2270.09	89.78
J-1720	2063.00	Low System	0.00	2270.12	89.79
J-1710	2063.00	Low System	2.59	2270.12	89.79
J-11240	2058.00	Low System	1.73	2265.15	89.80
J-318	2060.00	Low System	0.00	2267.19	89.82
J-1160	2069.00	Low System	0.00	2276.21	89.83
J-1320	2080.00	Low System	1.13	2287.29	89.86
J-245	2061.00	Low System	0.00	2268.39	89.91
J-672	2061.00	Low System	0.00	2268.39	89.91
J-383	2060.00	Low System	1.00	2267.47	89.94
J-23	2060.00	Low System	1.00	2267.49	89.95
J-8530	2056.50	Low System	0.00	2264.02	89.96
J-2970	2057.50	Low System	0.77	2265.15	90.02
J-1240	2090.50	Low System	0.00	2298.15	90.02
J-4370	2090.50	Low System	0.00	2298.18	90.03
J-10175	2057.00	Low System	52.60	2264.74	90.06
J-220	2110.00	Low System	4.00	2317.78	90.08
J-5640	2056.50	Low System	2.88	2264.43	90.14
J-357	2056.42	Low System	0.00	2264.36	90.15
J-1730	2062.00	Low System	0.64	2270.07	90.20
J-8470	2057.00	Low System	2.74	2265.19	90.25
J-10335	2056.00	Low System	3.86	2264.42	90.35
J-8660	2056.00	Low System	0.58	2264.48	90.38
J-9430	2061.50	Low System	0.19	2270.29	90.52
J-9420	2061.50	Low System	0.58	2270.29	90.52
J-1750	2061.00	Low System	0.00	2269.96	90.59
J-9075	2068.00	Low System	1.36	2277.08	90.64
J-580	2058.00	Low System	3.70	2267.13	90.66
J-8320	2058.00	Low System	0.00	2267.34	90.75
J-291	2055.00	Low System	6.00	2264.41	90.79
J-5940	2060.50	Low System	2.38	2270.14	90.88
J-1740	2060.00	Low System	7.50	2270.00	91.04
J-4430	2077.00	Low System	0.89	2287.29	91.16
J-356	2054.00	Low System	0.00	2264.40	91.21
J-292	2054.00	Low System	8.00	2264.43	91.23
J-354	2054.00	Low System	0.00	2264.44	91.23
J-339	2053.80	Low System	3.00	2264.41	91.31
J-7840	2053.50	Low System	1.15	2264.41	91.44
J-11235	2056.00	Low System	0.58	2267.05	91.50
J-78	2056.00	Low System	0.00	2267.13	91.53

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-500	2059.00	Low System	0.00	2270.29	91.60
J-4700	2065.50	Low System	1.94	2276.87	91.63
J-10195	2053.00	Low System	0.00	2264.39	91.64
J-338	2053.00	Low System	3.00	2264.41	91.65
J-6710	2052.50	Low System	2.31	2264.42	91.87
J-315	2055.00	Low System	6.50	2267.13	91.96
J-317	2055.00	Low System	5.21	2267.14	91.97
J-311	2055.00	Low System	7.00	2267.14	91.97
J-11245	2053.00	Low System	1.15	2265.15	91.97
J-7880	2055.50	Low System	3.46	2267.97	92.11
J-2450	2067.00	Low System	0.60	2279.49	92.12
J-2250	2055.00	Low System	0.77	2267.94	92.31
J-10310	2051.50	Low System	1.15	2264.47	92.33
J-6010	2057.00	Low System	4.19	2270.05	92.36
J-316	2054.00	Low System	4.00	2267.13	92.40
J-314	2054.00	Low System	10.50	2267.13	92.40
J-10125	2052.00	Low System	2.88	2265.16	92.41
J-498	2089.00	Low System	0.00	2302.18	92.42
J-499	2089.00	Low System	0.00	2302.18	92.42
J-497	2089.00	Low System	0.00	2302.18	92.42
J-321	2051.00	Low System	4.00	2264.42	92.52
J-6370	2051.00	Low System	3.65	2264.42	92.52
J-9070	2064.50	Low System	0.75	2277.93	92.53
J-9	2054.00	Low System	1.00	2267.49	92.55
J-5960	2056.50	Low System	0.19	2270.12	92.61
J-2980	2051.50	Low System	0.00	2265.16	92.62
J-8710	2050.50	Low System	0.58	2264.41	92.74
J-10315	2050.50	Low System	0.77	2264.47	92.76
J-3180	2054.00	Low System	0.19	2268.09	92.81
J-378	2053.00	Low System	0.69	2267.14	92.83
J-355	2050.20	Low System	0.00	2264.41	92.86
J-10040	2054.00	Low System	0.58	2268.42	92.95
J-10325	2050.00	Low System	2.27	2264.43	92.96
J-2990	2050.50	Low System	0.00	2265.16	93.06
J-8550	2049.00	Low System	0.00	2263.81	93.12
J-5990	2055.00	Low System	10.47	2270.08	93.24
J-6000	2055.00	Low System	0.00	2270.08	93.24
J-5980	2055.00	Low System	0.00	2270.09	93.25
J-6020	2055.00	Low System	0.00	2270.10	93.25
J-5970	2055.00	Low System	0.00	2270.10	93.25
J-3000	2050.00	Low System	0.19	2265.16	93.28
J-4420	2072.00	Low System	1.27	2287.29	93.33
J-8670	2049.00	Low System	0.58	2264.42	93.39
J-3170	2052.50	Low System	0.00	2268.09	93.46
J-3190	2052.50	Low System	0.00	2268.09	93.46
J-2240	2052.00	Low System	0.00	2268.09	93.68
J-247	2052.00	Low System	5.00	2268.34	93.79
J-293	2047.70	Low System	14.00	2264.41	93.95
J-8580	2047.00	Low System	8.50	2263.79	93.98
J-3150	2051.00	Low System	0.00	2268.10	94.12
J-2230	2051.00	Low System	0.00	2268.11	94.12
J-457	2097.00	Low System	8.00	2314.60	94.33
J-506	2080.50	Low System	4.86	2298.10	94.33
J-10285	2046.50	Low System	1.54	2264.42	94.47
J-10205	2046.00	Low System	0.00	2264.02	94.51
J-8540	2046.00	Low System	4.85	2264.08	94.54
J-213	2080.00	Low System	0.00	2298.10	94.55
J-3160	2050.00	Low System	20.79	2268.10	94.55
J-224	2049.50	Low System	5.00	2268.18	94.80
J-10050	2049.50	Low System	0.77	2268.38	94.89
J-493	2083.00	Low System	0.00	2302.18	95.02
J-10295	2045.00	Low System	2.47	2264.41	95.12
J-8680	2045.00	Low System	1.35	2264.41	95.12
J-3030	2045.50	Low System	0.00	2265.17	95.23
J-4680	2092.00	Low System	0.00	2312.49	95.59
J-3020	2044.50	Low System	0.00	2265.17	95.66
J-641	2046.00	Low System	5.21	2267.13	95.86

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated	
				Hydraulic Grade (ft)	Pressure (psi)
J-2220	2047.00	Low System	0.00	2268.25	95.92
J-10300	2042.50	Low System	2.94	2264.41	96.20
J-3010	2043.00	Low System	0.77	2265.16	96.31
J-8330	2045.00	Low System	1.73	2267.33	96.39
J-11220	2044.50	Low System	1.73	2267.07	96.49
J-4595	2082.00	Low System	0.58	2304.95	96.65
J-182	2090.00	Low System	0.00	2312.97	96.66
J-11215	2044.00	Low System	1.73	2267.08	96.71
J-8080	2044.00	Low System	1.54	2267.13	96.73
J-8060	2041.00	Low System	1.54	2264.41	96.85
J-190	2089.00	Low System	0.00	2312.49	96.89
J-19	2044.00	Low System	1.00	2267.49	96.89
J-3140	2041.00	Low System	0.00	2264.50	96.89
J-3130	2041.00	Low System	0.00	2264.50	96.89
J-8310	2043.00	Low System	1.15	2267.06	97.13
J-8300	2043.00	Low System	1.15	2267.06	97.13
J-631	2043.00	Low System	0.35	2267.09	97.15
J-8130	2043.00	Low System	0.58	2267.13	97.17
J-8110	2043.00	Low System	0.58	2267.13	97.17
J-10255	2039.50	Low System	6.38	2263.77	97.23
J-1260	2073.00	Low System	0.15	2297.35	97.26
J-8025	2039.50	Low System	1.35	2264.44	97.51
J-4390	2074.00	Low System	0.17	2298.96	97.52
J-392	2042.00	Low System	4.00	2267.06	97.57
J-8270	2042.00	Low System	1.35	2267.06	97.57
J-8140	2042.00	Low System	0.58	2267.13	97.60
J-8590	2038.00	Low System	0.00	2263.77	97.88
J-10320	2038.50	Low System	4.04	2264.47	97.96
J-10210	2038.00	Low System	5.37	2264.02	97.98
J-632	2041.00	Low System	0.35	2267.09	98.01
J-310	2041.00	Low System	0.00	2267.19	98.06
J-10045	2042.00	Low System	17.92	2268.40	98.15
J-8690	2038.00	Low System	1.73	2264.41	98.16
J-4660	2086.00	Low System	0.58	2312.45	98.17
J-20	2041.00	Low System	1.00	2267.49	98.19
J-614	2040.00	Low System	5.21	2267.12	98.46
J-615	2040.00	Low System	5.21	2267.12	98.46
J-62	2040.00	Low System	3.90	2267.13	98.47
J-74	2040.00	Low System	0.00	2267.13	98.47
J-277	2080.00	Low System	10.00	2307.30	98.54
J-2390	2037.00	Low System	0.38	2264.44	98.60
J-22	2040.00	Low System	1.00	2267.49	98.62
J-4410	2069.00	Low System	0.00	2296.60	98.67
J-1270	2069.00	Low System	0.00	2296.60	98.67
J-623	2080.00	Low System	5.79	2307.73	98.72
J-8150	2039.00	Low System	1.15	2267.13	98.90
J-8100	2039.00	Low System	1.35	2267.13	98.90
J-328	2039.00	Low System	5.00	2267.17	98.92
J-10340	2036.00	Low System	0.96	2264.42	99.03
J-28	2039.00	Low System	1.00	2267.49	99.06
J-390	2038.50	Low System	3.00	2267.06	99.08
J-391	2038.50	Low System	3.50	2267.06	99.08
J-8090	2038.50	Low System	0.77	2267.13	99.12
J-8280	2038.00	Low System	1.54	2267.06	99.30
J-466	2085.00	Low System	8.00	2314.49	99.49
J-20050	2036.00	Low System	0.00	2266.22	99.80
J-216	2068.00	Low System	0.00	2298.32	99.85
J-8720	2034.00	Low System	1.15	2264.41	99.89
J-21010	2041.00	Low System	0.00	2271.69	100.01
J-10215	2033.00	Low System	0.00	2264.02	100.15
J-389	2036.00	Low System	3.00	2267.06	100.17
J-581	2036.00	Low System	3.70	2267.13	100.20
J-215	2068.00	Low System	0.00	2299.27	100.26
J-8015	2033.00	Low System	0.38	2264.41	100.32
J-10345	2033.00	Low System	1.54	2264.42	100.33
J-395	2035.00	Low System	3.50	2267.06	100.60
J-8210	2035.00	Low System	0.38	2267.13	100.63

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-8600	2031.00	Low System	8.50	2263.75	100.90
J-70	2034.00	Low System	0.00	2267.13	101.07
J-2400	2031.00	Low System	0.00	2264.44	101.20
J-8190	2033.50	Low System	0.96	2267.13	101.28
J-10095	2033.00	Low System	0.00	2267.06	101.47
J-578	2033.00	Low System	0.50	2267.17	101.52
J-388	2032.00	Low System	0.00	2267.06	101.90
J-8340	2032.00	Low System	14.41	2267.28	102.00
J-8260	2031.00	Low System	0.96	2267.06	102.34
J-8160	2031.00	Low System	0.96	2267.13	102.37
J-387	2030.00	Low System	0.00	2267.06	102.77
J-21	2030.00	Low System	1.00	2267.49	102.96
J-8170	2029.50	Low System	1.15	2267.13	103.02
J-612	2029.00	Low System	5.21	2267.12	103.23
J-7850	2026.00	Low System	0.96	2264.41	103.36
J-640	2028.50	Low System	0.00	2267.08	103.43
J-4670	2074.00	Low System	63.61	2312.65	103.46
J-1310	2052.00	Low System	0.78	2290.68	103.47
J-637	2025.00	Low System	7.00	2264.44	103.80
J-379	2027.50	Low System	0.00	2267.14	103.89
J-8610	2024.00	Low System	12.75	2263.74	103.93
J-10220	2024.00	Low System	5.37	2264.01	104.05
J-8290	2027.00	Low System	0.00	2267.06	104.07
J-8700	2024.00	Low System	0.19	2264.41	104.22
J-1300	2050.00	Low System	1.76	2291.16	104.55
J-8005	2023.00	Low System	1.35	2264.41	104.66
J-9080	2035.00	Low System	0.00	2276.87	104.86
J-1290	2049.00	Low System	0.98	2292.48	105.55
J-584	2049.00	Low System	0.00	2292.79	105.69
J-393	2023.00	Low System	2.00	2267.06	105.80
J-336	2066.00	Low System	0.00	2310.50	105.99
J-337	2066.00	Low System	0.00	2310.50	105.99
J-1280	2050.00	Low System	1.57	2295.51	106.43
J-27	2021.50	Low System	1.00	2267.50	106.65
J-613	2020.00	Low System	5.21	2267.12	107.13
J-617	2020.00	Low System	2.78	2267.12	107.13
J-8620	2016.00	Low System	7.44	2263.73	107.39
J-66	2019.00	Low System	0.00	2267.13	107.57
J-10225	2015.00	Low System	18.40	2263.59	107.77
J-519	2018.00	Low System	5.10	2267.47	108.15
J-3330	2018.00	Low System	1.54	2267.48	108.15
J-10250	2013.00	Low System	5.58	2263.71	108.69
J-10230	2013.00	Low System	0.00	2263.71	108.69
J-4250	2016.50	Low System	1.65	2267.48	108.80
J-8560	2011.50	Low System	24.48	2263.61	109.30
J-21040	2016.00	Low System	0.00	2268.16	109.31
J-10240	2011.50	Low System	9.30	2263.70	109.34
J-10245	2011.00	Low System	0.00	2263.71	109.56
J-4600	2052.00	Low System	26.46	2304.94	109.65
J-21020	2016.60	Low System	0.00	2269.90	109.81
J-583	2038.00	Low System	0.00	2292.79	110.46
J-494	2046.00	Low System	0.00	2302.18	111.06
J-10235	2006.00	Low System	11.16	2263.71	111.72
J-234	2003.00	Low System	10.00	2263.54	112.95
J-8570	2002.50	Low System	14.54	2263.59	113.19
J-331	2006.00	Low System	0.00	2267.17	113.22
J-239	2001.00	Low System	7.00	2263.55	113.82
J-236	2000.50	Low System	7.00	2263.54	114.04
J-396	2004.00	Low System	0.00	2267.06	114.04
J-238	2000.00	Low System	7.00	2263.54	114.25
J-8250	2003.00	Low System	3.07	2267.07	114.48
J-616	2003.00	Low System	2.78	2267.12	114.50
J-237	1999.00	Low System	7.00	2263.54	114.69
J-394	2001.00	Low System	1.00	2267.06	115.34
J-3530	2001.00	Low System	0.00	2267.14	115.38
J-21030	2002.00	Low System	0.00	2268.40	115.49
J-240	1993.00	Low System	7.00	2263.56	117.29

Node Label	Elevation (ft)	Pressure Zone	Demand (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-4940	1994.00	Low System	0.00	2267.39	118.52
J-450	2040.00	Low System	0.00	2313.98	118.78
J-342	1992.00	Low System	1.40	2267.14	119.28
J-490	2035.00	Low System	9.00	2311.14	119.71
J-489	2035.00	Low System	9.00	2311.14	119.71
J-488	2034.00	Low System	0.00	2311.14	120.15
J-343	1988.00	Low System	0.69	2267.14	121.01
J-491	2032.00	Low System	1.50	2311.14	121.01
J-4960	1980.00	Low System	0.19	2267.06	124.45
J-3540	1977.00	Low System	2.50	2267.14	125.78
J-579	1974.00	Low System	0.50	2267.18	127.10
J-329	1972.00	Low System	5.00	2267.17	127.96
J-210	2015.00	Low System	0.00	2311.40	128.50
J-330	1970.00	Low System	0.00	2267.17	128.83
J-495	1999.00	Low System	0.00	2302.18	131.43
J-4280	1964.00	Low System	2.88	2267.29	131.48
J-4950	1962.00	Low System	0.00	2267.27	132.34
J-4260	1953.50	Low System	0.96	2267.34	136.06
J-582	1950.50	Low System	3.70	2267.13	137.26
J-4305	1950.00	Low System	1.34	2267.19	137.51
J-4270	1950.00	Low System	0.19	2267.33	137.57
J-496	1980.00	Low System	0.69	2302.18	139.67
J-211	1969.00	Low System	150.00	2311.07	148.29
J-3580	1923.00	Low System	3.47	2267.16	149.20
J-3570	1917.00	Low System	7.36	2267.15	151.80
J-3560	1915.00	Low System	0.00	2267.14	152.66
J-3555	1907.00	Low System	0.00	2267.15	156.13
J-3550	1902.50	Low System	2.50	2267.14	158.08

**TOWN OF BLACKSBURG WATER SYSTEM**  
**FIRST & MAIN PROJECT HYDRAULIC ANALYSIS**  
**MAY 4, 2007**

**Run 2 - Maximum Daily Demand plus 1000 gpm fire hydrant demand at MJ-11 and  
 1000 gpm fire sprinkler demand at MJ-9 for a duration of 2 hours both nodes  
 are located within the Proposed First & Main project site.**

**All Tanks at Normal Low Level & Triangle PS Pumps #2 & #3 On.**

**Extended Period Analysis - Reported after 2 of 2 hours**

**Pipe Report - sorted by link label**

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade	Downstream Hydraulic Grade	Headloss (ft)	Headloss Gradient (ft/1000ft)
						(ft)	(ft)		
MP-1	367.00	8.00	121.00	Open	622.13	2267.19	2264.01	3.18	8.66
MP-2	25.00	6.00	121.00	Open	0.00	2264.01	2264.01	0.00	0.00
MP-3	441.00	8.00	121.00	Open	622.13	2264.01	2260.19	3.82	8.66
MP-4	10.00	6.00	121.00	Open	0.00	2260.19	2260.19	0.00	0.00
MP-5	425.00	8.00	121.00	Open	622.13	2260.19	2256.50	3.68	8.66
MP-6	10.00	6.00	121.00	Open	0.00	2256.50	2256.50	0.00	0.00
MP-7	121.00	8.00	121.00	Open	622.13	2256.50	2255.46	1.05	8.66
MP-8	49.00	8.00	121.00	Open	614.91	2255.46	2255.04	0.42	8.48
MP-9	18.00	8.00	121.00	Open	1008.61	2255.04	2254.66	0.38	21.19
MP-10	100.00	8.00	121.00	Open	-393.70	2255.04	2255.41	0.37	3.71
MP-11	10.00	6.00	121.00	Open	1000.00	2255.41	2254.57	0.85	84.72
MP-12	36.00	8.00	121.00	Open	-1393.70	2255.41	2256.80	1.39	38.57
MP-13	9.00	6.00	121.00	Open	0.00	2267.20	2267.20	0.00	0.00
MP-14	108.00	8.00	121.00	Open	-162.79	2275.10	2275.18	0.08	0.72
MP-15	21.00	8.00	121.00	Open	11.07	2275.18	2275.18	0.00	0.00
MP-16	106.00	8.00	121.00	Open	-173.86	2275.18	2275.27	0.09	0.82
MP-17	26.00	8.00	121.00	Open	-26.06	2275.27	2275.27	0.00	0.02
MP-18	10.00	6.00	121.00	Open	0.00	2275.27	2275.27	0.00	0.00
MP-19	203.00	8.00	121.00	Open	-26.06	2275.27	2275.27	0.01	0.03
MP-20	42.00	8.00	121.00	Open	9.07	2275.27	2275.27	0.00	0.01
MP-21	20.00	8.00	121.00	Open	-35.13	2275.27	2275.28	0.00	0.04
MP-22	11.00	8.00	121.00	Open	-42.77	2275.28	2275.28	0.00	0.07
MP-23	16.00	8.00	121.00	Open	3.43	2275.28	2275.28	0.00	0.00
MP-24	76.00	8.00	121.00	Open	-46.20	2275.28	2275.28	0.01	0.07
MP-25	43.00	8.00	121.00	Open	11.02	2275.28	2275.28	0.00	0.01
MP-26	10.00	6.00	121.00	Open	0.00	2275.28	2275.28	0.00	0.00
MP-27	47.00	8.00	121.00	Open	11.01	2275.28	2275.28	0.00	0.01
MP-28	409.00	8.00	121.00	Open	-57.22	2275.28	2275.32	0.04	0.10
MP-29	27.00	6.00	121.00	Open	0.00	2275.32	2275.32	0.00	0.00
MP-30	483.00	8.00	121.00	Open	-57.22	2275.32	2275.37	0.05	0.10
MP-31	12.00	6.00	121.00	Open	0.00	2275.37	2275.37	0.00	0.00
MP-32	118.00	8.00	121.00	Open	-57.22	2275.37	2275.39	0.01	0.10
MP-33	6.00	8.00	121.00	Open	23.18	2275.39	2275.39	0.00	0.00
MP-34	17.00	8.00	121.00	Open	-80.41	2275.39	2275.39	0.00	0.20
MP-35	151.00	8.00	121.00	Open	-87.41	2275.39	2275.42	0.03	0.23
MP-36	87.00	8.00	121.00	Open	-115.19	2275.42	2275.46	0.03	0.38
MP-37	10.00	6.00	121.00	Open	0.00	2275.46	2275.46	0.00	0.00
MP-38	170.00	8.00	121.00	Open	-115.19	2275.46	2275.52	0.06	0.38
MP-39	2.00	8.00	121.00	Open	11.39	2275.52	2275.52	0.00	0.00
MP-40	53.00	8.00	121.00	Open	-126.58	2275.52	2275.55	0.02	0.46
MP-41	51.00	8.00	121.00	Open	-142.14	2275.55	2275.58	0.03	0.56
MP-42	122.00	6.00	121.00	Open	0.00	2275.58	2275.58	0.00	0.00
MP-43	347.00	8.00	121.00	Open	-142.14	2275.58	2275.77	0.20	0.56
MP-44	34.00	6.00	121.00	Open	0.00	2275.77	2275.77	0.00	0.00
MP-45	118.00	8.00	121.00	Open	-142.14	2275.77	2275.84	0.07	0.56
MP-46	12.00	8.00	121.00	Open	-154.81	2275.84	2275.84	0.01	0.65
MP-47	3.00	8.00	121.00	Open	22.39	2275.84	2275.84	0.00	0.00
MP-48	84.00	8.00	121.00	Open	-177.20	2275.84	2275.92	0.07	0.85
MP-49	118.00	8.00	121.00	Open	191.25	2275.92	2275.80	0.11	0.97
MP-50	64.00	8.00	121.00	Open	15.24	2275.80	2275.80	0.00	0.01
MP-51	48.00	8.00	121.00	Open	176.01	2275.80	2275.76	0.04	0.83
MP-52	12.00	6.00	121.00	Open	0.00	2275.76	2275.76	0.00	0.00

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)	
MP-53	98.00	8.00	121.00	Open	176.01	2275.76	2275.68	0.08	0.83
MP-54	174.00	8.00	121.00	Open	170.60	2275.68	2275.54	0.14	0.79
MP-55	24.00	8.00	121.00	Open	3.41	2275.54	2275.54	0.00	0.00
MP-56	116.00	8.00	121.00	Open	167.19	2275.54	2275.45	0.09	0.76
MP-57	14.00	6.00	121.00	Open	0.00	2275.45	2275.45	0.00	0.00
MP-58	14.00	8.00	121.00	Open	5.73	2275.45	2275.45	0.00	0.00
MP-59	152.00	8.00	121.00	Open	161.46	2275.45	2275.35	0.11	0.71
MP-60	48.00	8.00	121.00	Open	13.66	2275.35	2275.34	0.00	0.01
MP-61	126.00	8.00	121.00	Open	147.80	2275.35	2275.27	0.08	0.60
MP-62	185.00	8.00	121.00	Open	-368.45	2275.92	2276.52	0.61	3.28
P-1	1.00	16.00	120.00	Open	1648.84	2228.86	2228.86	0.00	1.95
P-2	1.00	16.00	120.00	Open	928.28	2231.81	2231.81	0.00	0.49
P-3	119.00	16.00	120.00	Open	-1408.55	2272.16	2272.32	0.16	1.37
P-9	342.00	8.00	120.00	Open	-8.31	2267.49	2267.49	0.00	0.00
P-11	243.00	8.00	120.00	Open	-9.31	2267.49	2267.49	0.00	0.00
P-13	43.00	8.00	120.00	Open	-10.31	2267.49	2267.49	0.00	0.01
P-15	181.00	8.00	120.00	Open	17.20	2267.49	2267.49	0.00	0.01
P-17	67.00	8.00	120.00	Open	16.20	2267.49	2267.49	0.00	0.01
P-19	387.00	8.00	120.00	Open	-3.31	2267.49	2267.49	0.00	0.00
P-20	82.00	8.00	120.00	Open	-4.31	2267.49	2267.49	0.00	0.00
P-21	100.00	8.00	120.00	Open	-5.31	2267.49	2267.49	0.00	0.00
P-22	51.00	8.00	120.00	Open	-6.31	2267.49	2267.49	0.00	0.00
P-23	67.00	8.00	120.00	Open	-7.31	2267.49	2267.49	0.00	0.00
P-24	44.00	16.00	120.00	Closed	0.00	2329.20	2226.35	0.00	0.00
P-25	45.00	16.00	100.00	Closed	0.00	2328.72	2226.67	0.00	0.00
P-27	333.00	12.00	120.00	Open	-121.32	2267.48	2267.50	0.02	0.06
P-28	2522.00	12.00	120.00	Open	-151.83	2267.50	2267.72	0.23	0.09
P-29	208.00	8.00	120.00	Open	29.51	2267.50	2267.49	0.01	0.03
P-30	109.00	8.00	120.00	Open	28.51	2267.49	2267.49	0.00	0.03
P-37	1252.00	10.00	120.00	Open	-16.09	2267.72	2267.73	0.00	0.00
P-39	308.00	8.00	120.00	Open	3.99	2267.73	2267.73	0.00	0.00
P-40	80.00	8.00	120.00	Open	2.66	2267.73	2267.73	0.00	0.00
P-41	166.00	8.00	120.00	Open	1.33	2267.73	2267.73	0.00	0.00
P-43	185.00	8.00	120.00	Open	8.41	2267.73	2267.73	0.00	0.00
P-44	228.00	8.00	120.00	Open	-12.72	2267.73	2267.73	0.00	0.01
P-45	434.00	8.00	120.00	Open	-13.72	2267.73	2267.73	0.00	0.01
P-48	363.00	10.00	120.00	Open	-20.08	2267.73	2267.73	0.00	0.00
P-49	506.00	10.00	120.00	Open	-28.49	2267.73	2267.74	0.01	0.01
P-50	36.00	8.00	120.00	Open	-8.41	2267.73	2267.73	0.00	0.00
P-51	147.00	10.00	120.00	Open	-28.49	2267.74	2267.74	0.00	0.01
P-53	492.00	10.00	120.00	Open	-44.21	2267.74	2267.75	0.01	0.02
P-58	241.00	8.00	120.00	Open	-15.72	2267.73	2267.74	0.00	0.01
P-62	189.00	8.00	120.00	Open	0.00	2271.18	2271.18	0.00	0.00
P-66	18.00	8.00	120.00	Open	35.33	2271.18	2271.18	0.00	0.05
P-70	421.00	8.00	120.00	Open	1.00	2271.18	2271.18	0.00	0.00
P-74	400.00	8.00	120.00	Open	21.39	2270.61	2270.60	0.01	0.02
P-78	94.00	6.00	120.00	Open	-22.65	2270.61	2270.62	0.01	0.08
P-79	114.00	6.00	120.00	Open	-22.65	2270.62	2270.63	0.01	0.08
P-80	383.00	8.00	120.00	Open	-106.66	2270.48	2270.61	0.13	0.34
P-81	388.00	8.00	120.00	Open	-108.66	2270.61	2270.74	0.13	0.35
P-82	221.00	8.00	120.00	Open	110.66	2270.89	2270.81	0.08	0.36
P-83	183.00	8.00	120.00	Open	-110.66	2270.74	2270.81	0.07	0.36
P-84	465.00	12.00	120.00	Open	205.61	2269.11	2269.04	0.07	0.16
P-85	356.00	12.00	120.00	Open	200.61	2269.04	2268.98	0.05	0.15
P-86	298.00	8.00	120.00	Open	2.50	2269.04	2269.04	0.00	0.00
P-87	418.00	8.00	120.00	Open	-7.00	2267.13	2267.13	0.00	0.00
P-89	540.00	8.00	120.00	Open	0.00	2267.13	2267.13	0.00	0.00
P-90	95.00	8.00	120.00	Open	0.00	2267.13	2267.13	0.00	0.00
P-91	61.00	8.00	120.00	Open	-3.90	2267.13	2267.13	0.00	0.00
P-93	178.00	8.00	120.00	Open	-3.90	2267.13	2267.13	0.00	0.00
P-94	350.00	8.00	120.00	Open	-3.90	2267.13	2267.13	0.00	0.00
P-130	222.00	6.00	120.00	Open	-3.33	2267.85	2267.86	0.00	0.00
P-131	68.00	2.00	120.00	Open	-3.33	2267.82	2267.86	0.03	0.47
P-132	63.00	2.00	120.00	Open	3.33	2267.86	2267.83	0.03	0.47

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-133	85.00	4.00	120.00	Open	-6.66	2267.86	2267.86	0.00	0.06	
P-134	151.00	2.00	120.00	Open	-1.00	2267.86	2267.87	0.01	0.05	
P-136	191.00	4.00	120.00	Open	3.33	2267.85	2267.85	0.00	0.02	
P-138	659.00	12.00	120.00	Open	-128.42	2267.85	2267.90	0.04	0.07	
P-139	268.00	4.00	120.00	Open	-3.33	2267.85	2267.85	0.00	0.02	
P-140	52.00	4.00	120.00	Open	6.66	2267.85	2267.85	0.00	0.06	
P-141	85.00	8.00	120.00	Open	9.97	2267.85	2267.85	0.00	0.00	
P-142	75.00	8.00	120.00	Open	-3.35	2267.85	2267.85	0.00	0.00	
P-143	341.00	8.00	120.00	Open	-6.68	2267.85	2267.86	0.00	0.00	
P-144	256.00	8.00	120.00	Open	50.33	2267.87	2267.85	0.02	0.08	
P-145	26.00	8.00	120.00	Open	64.29	2267.83	2267.82	0.00	0.13	
P-146	160.00	8.00	120.00	Open	69.29	2267.85	2267.83	0.02	0.15	
P-147	401.00	8.00	120.00	Open	25.07	2267.82	2267.82	0.01	0.02	
P-148	36.00	8.00	120.00	Open	25.07	2267.82	2267.81	0.00	0.02	
P-149	211.00	8.00	120.00	Open	34.22	2267.82	2267.82	0.01	0.04	
P-150	66.00	8.00	120.00	Open	29.22	2267.82	2267.81	0.00	0.03	
P-151	215.00	8.00	120.00	Open	5.00	2267.81	2267.81	0.00	0.00	
P-155	275.00	8.00	120.00	Open	-19.22	2267.81	2267.81	0.00	0.01	
P-157	654.00	12.00	120.00	Open	-118.45	2267.82	2267.85	0.04	0.06	
P-159	126.00	8.00	120.00	Open	23.97	2267.86	2267.85	0.00	0.02	
P-160	117.00	8.00	120.00	Open	-37.31	2267.86	2267.86	0.01	0.05	
P-162	75.00	8.00	120.00	Open	-44.97	2267.87	2267.87	0.00	0.07	
P-163	67.00	8.00	120.00	Open	-43.97	2267.86	2267.87	0.00	0.07	
P-164	54.00	8.00	120.00	Open	-44.97	2267.87	2267.87	0.00	0.07	
P-165	32.00	8.00	120.00	Open	-1.00	2267.87	2267.87	0.00	0.00	
P-166	30.00	8.00	120.00	Open	193.93	2268.89	2268.86	0.03	1.02	
P-167	1335.00	8.00	120.00	Open	124.74	2268.86	2268.26	0.60	0.45	
P-171	113.00	8.00	120.00	Open	38.50	2268.82	2268.82	0.01	0.05	
P-180	42.00	8.00	120.00	Open	0.00	2268.75	2268.75	0.00	0.00	
P-181	116.00	8.00	120.00	Open	-11.00	2268.75	2268.75	0.00	0.00	
P-182	274.00	8.00	120.00	Open	0.00	2268.75	2268.75	0.00	0.00	
P-184	176.00	8.00	120.00	Open	-22.00	2268.75	2268.75	0.00	0.02	
P-189	191.00	8.00	120.00	Open	-33.00	2268.75	2268.76	0.01	0.04	
P-190	90.00	8.00	120.00	Open	-44.00	2268.76	2268.77	0.01	0.07	
P-191	98.00	8.00	120.00	Open	-55.00	2268.77	2268.78	0.01	0.10	
P-192	146.00	8.00	120.00	Open	-66.00	2268.78	2268.80	0.02	0.14	
P-193	112.00	8.00	120.00	Open	-77.00	2268.80	2268.82	0.02	0.18	
P-194	113.00	8.00	120.00	Open	-38.50	2268.82	2268.82	0.01	0.05	
P-195	162.00	8.00	120.00	Open	69.19	2268.86	2268.83	0.02	0.15	
P-196	49.00	8.00	120.00	Open	88.00	2268.83	2268.82	0.01	0.23	
P-197	120.00	6.00	120.00	Open	-29.82	2268.83	2268.85	0.02	0.13	
P-198	152.00	8.00	120.00	Open	-29.82	2268.85	2268.85	0.00	0.03	
P-199	75.00	8.00	120.00	Open	-29.82	2268.85	2268.86	0.00	0.03	
P-200	156.00	8.00	120.00	Open	-29.82	2268.86	2268.86	0.00	0.03	
P-203	17.00	8.00	120.00	Open	129.82	2269.27	2269.26	0.01	0.49	
P-204	392.00	8.00	120.00	Open	-129.82	2269.07	2269.26	0.19	0.48	
P-205	170.00	8.00	120.00	Open	-89.82	2268.89	2268.94	0.04	0.24	
P-206	392.00	8.00	120.00	Open	-109.82	2268.94	2269.07	0.14	0.35	
P-207	140.00	8.00	120.00	Open	-49.82	2268.86	2268.87	0.01	0.08	
P-208	140.00	8.00	120.00	Open	-69.82	2268.87	2268.89	0.02	0.15	
P-209	225.00	6.00	115.00	Open	-210.23	2273.39	2274.56	1.17	5.18	
P-210	122.00	6.00	115.00	Open	46.65	2274.56	2274.52	0.04	0.32	
P-211	343.00	8.00	120.00	Open	-256.88	2274.56	2275.15	0.59	1.71	
P-212	1010.00	6.00	115.00	Open	-66.51	2274.69	2275.31	0.62	0.61	
P-213	441.00	6.00	115.00	Open	-142.29	2275.31	2276.42	1.11	2.52	
P-215	318.00	8.00	120.00	Open	-75.22	2275.15	2275.20	0.06	0.18	
P-216	617.00	8.00	120.00	Open	-75.78	2275.20	2275.31	0.11	0.18	
P-218	606.00	16.00	100.00	Open	-2076.19	2315.46	2317.84	2.38	3.93	
P-222	257.00	16.00	120.00	Open	-2076.19	2312.97	2313.69	0.72	2.80	
P-223	142.00	16.00	120.00	Open	2076.19	2315.46	2315.07	0.40	2.80	
P-224	105.00	16.00	120.00	Open	-2076.19	2313.69	2313.98	0.29	2.80	
P-225	121.00	16.00	120.00	Open	2076.19	2315.07	2314.73	0.34	2.80	
P-226	266.00	16.00	120.00	Open	-2076.19	2313.98	2314.73	0.75	2.80	
P-227	53.00	8.00	120.00	Open	-166.87	2312.45	2312.49	0.04	0.77	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-228	63.00	8.00	120.00	Open	0.00	2312.49	2312.49	0.00	0.00	
P-229	172.00	16.00	120.00	Open	-2076.19	2312.49	2312.97	0.48	2.80	
P-230	3149.00	16.00	120.00	Open	-1909.32	2304.93	2312.49	7.55	2.40	
P-231	23.00	8.00	120.00	Open	-276.04	2304.93	2304.98	0.04	1.95	
P-232	449.00	16.00	120.00	Open	2185.36	2304.93	2303.55	1.38	3.08	
P-233	339.00	16.00	120.00	Open	2185.36	2303.55	2302.51	1.04	3.08	
P-234	106.00	16.00	120.00	Open	-508.50	2298.07	2298.09	0.02	0.21	
P-236	1433.00	16.00	120.00	Open	-2185.36	2298.09	2302.51	4.41	3.08	
P-237	395.00	8.00	120.00	Open	0.00	2297.53	2297.53	0.00	0.00	
P-239	78.00	8.00	120.00	Open	-4.59	2276.83	2276.83	0.00	0.00	
P-240	102.00	8.00	120.00	Open	-4.59	2276.83	2276.83	0.00	0.00	
P-241	87.00	8.00	120.00	Open	-4.59	2276.83	2276.83	0.00	0.00	
P-242	120.00	8.00	120.00	Open	-8.29	2276.83	2276.83	0.00	0.00	
P-243	82.00	8.00	120.00	Open	-8.29	2276.83	2276.83	0.00	0.00	
P-244	73.00	8.00	120.00	Open	-8.29	2276.83	2276.83	0.00	0.00	
P-246	347.00	8.00	120.00	Open	14.70	2276.84	2276.83	0.00	0.01	
P-247	144.00	8.00	120.00	Open	-8.29	2276.83	2276.83	0.00	0.00	
P-249	536.00	8.00	120.00	Open	2.71	2276.83	2276.83	0.00	0.00	
P-258	68.00	20.00	120.00	Open	-2929.77	2315.06	2315.18	0.12	1.79	
P-261	76.00	20.00	120.00	Open	-2722.89	2304.57	2304.69	0.12	1.56	
P-264	300.00	16.00	120.00	Open	1946.45	2298.10	2297.35	0.75	2.49	
P-265	72.00	16.00	115.00	Open	-261.70	2302.18	2302.19	0.00	0.06	
P-266	479.00	16.00	115.00	Open	-2713.46	2302.19	2304.57	2.38	4.98	
P-268	118.00	8.00	120.00	Open	-327.59	2298.96	2299.27	0.32	2.68	
P-269	844.00	8.00	120.00	Open	431.15	2299.27	2295.51	3.76	4.46	
P-271	340.00	20.00	120.00	Open	1693.02	2298.32	2298.10	0.22	0.65	
P-272	17.00	8.00	120.00	Open	-1693.02	2298.32	2299.27	0.96	56.18	
P-273	2266.00	20.00	120.00	Open	-2451.76	2299.27	2302.19	2.91	1.29	
P-277	558.00	8.00	120.00	Open	320.09	2319.21	2317.78	1.43	2.57	
P-279	73.00	8.00	120.00	Open	292.78	2272.71	2272.55	0.16	2.18	
P-280	181.00	8.00	120.00	Open	289.77	2272.55	2272.16	0.39	2.14	
P-281	137.00	4.00	120.00	Open	3.01	2272.55	2272.55	0.00	0.01	
P-282	488.00	8.00	120.00	Open	5.00	2268.18	2268.18	0.00	0.00	
P-283	800.00	8.00	120.00	Open	-78.27	2268.18	2268.33	0.15	0.19	
P-286	957.00	8.00	120.00	Open	33.11	2270.77	2270.73	0.04	0.04	
P-288	579.00	8.00	120.00	Open	26.43	2271.32	2271.31	0.01	0.03	
P-289	64.00	8.00	120.00	Open	13.54	2271.31	2271.31	0.00	0.01	
P-292	373.00	8.00	120.00	Open	-2.37	2271.31	2271.31	0.00	0.00	
P-293	405.00	8.00	120.00	Open	5.00	2271.31	2271.31	0.00	0.00	
P-294	815.00	8.00	120.00	Open	-12.37	2271.31	2271.31	0.00	0.01	
P-295	44.00	8.00	120.00	Open	-17.37	2271.31	2271.31	0.00	0.01	
P-300	725.00	16.00	120.00	Open	4272.65	2240.00	2232.27	7.73	10.66	
P-302	312.00	8.00	120.00	Open	-10.00	2263.54	2263.54	0.00	0.00	
P-303	165.00	8.00	120.00	Open	-11.81	2263.54	2263.54	0.00	0.00	
P-304	98.00	6.00	120.00	Open	5.19	2263.54	2263.54	0.00	0.00	
P-305	179.00	8.00	120.00	Open	-12.19	2263.54	2263.55	0.00	0.01	
P-306	47.00	8.00	120.00	Open	-18.81	2263.54	2263.55	0.00	0.02	
P-307	432.00	8.00	120.00	Open	45.00	2263.59	2263.56	0.03	0.07	
P-308	308.00	8.00	120.00	Open	38.00	2263.56	2263.55	0.02	0.05	
P-309	65.00	4.00	120.00	Open	0.00	2272.55	2272.55	0.00	0.00	
P-310	826.00	16.00	100.00	Open	-3732.88	2230.39	2240.00	9.61	11.64	
P-311	144.00	4.00	120.00	Open	0.00	2272.55	2272.55	0.00	0.00	
P-312	104.00	4.00	120.00	Open	0.00	2272.55	2272.55	0.00	0.00	
P-313	607.00	12.00	100.00	Open	340.41	2271.11	2270.77	0.34	0.56	
P-314	766.00	12.00	100.00	Open	303.30	2270.77	2270.42	0.35	0.45	
P-315	26.00	8.00	120.00	Open	-35.11	2270.77	2270.77	0.00	0.04	
P-316	612.00	8.00	120.00	Open	-14.86	2268.38	2268.39	0.01	0.01	
P-317	302.00	8.00	120.00	Open	-75.65	2268.39	2268.44	0.05	0.18	
P-319	67.00	8.00	120.00	Open	-83.27	2268.33	2268.35	0.01	0.21	
P-320	731.00	16.00	120.00	Open	928.28	2232.27	2231.81	0.46	0.63	
P-321	157.00	8.00	120.00	Open	-93.27	2268.35	2268.39	0.04	0.26	
P-322	635.00	8.00	120.00	Open	5.00	2268.35	2268.34	0.00	0.00	
P-323	34.00	8.00	120.00	Open	-2.89	2264.51	2264.51	0.00	0.00	
P-324	83.00	8.00	120.00	Open	-12.89	2264.51	2264.51	0.00	0.01	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-325	561.00	4.00	120.00	Open	10.00	2264.51	2264.44	0.07	0.12	
P-326	64.00	4.00	120.00	Open	10.00	2264.44	2264.43	0.01	0.12	
P-327	252.00	16.00	120.00	Open	1676.86	2298.09	2297.62	0.48	1.89	
P-330	838.00	16.00	120.00	Open	-1648.84	2228.86	2230.39	1.53	1.83	
P-333	67.00	8.00	120.00	Open	2.00	2297.62	2297.62	0.00	0.00	
P-335	302.00	16.00	120.00	Open	123.61	2298.00	2298.00	0.00	0.01	
P-336	65.00	8.00	120.00	Open	148.98	2298.00	2297.96	0.04	0.62	
P-340	1741.00	16.00	100.00	Open	-2481.43	2319.21	2328.72	9.51	5.46	
P-342	77.00	8.00	120.00	Open	0.00	2297.76	2297.76	0.00	0.00	
P-343	509.00	8.00	120.00	Open	-94.98	2297.62	2297.76	0.14	0.27	
P-346	66.00	6.00	120.00	Open	3.00	2297.75	2297.75	0.00	0.00	
P-347	107.00	4.00	120.00	Open	3.00	2297.75	2297.75	0.00	0.01	
P-348	114.00	4.00	120.00	Open	3.00	2297.75	2297.75	0.00	0.01	
P-349	113.00	8.00	120.00	Open	21.00	2297.76	2297.76	0.00	0.02	
P-350	198.00	16.00	100.00	Open	-2133.77	2318.40	2319.21	0.82	4.13	
P-351	126.00	8.00	120.00	Open	12.00	2297.76	2297.75	0.00	0.01	
P-352	117.00	4.00	120.00	Open	3.00	2297.76	2297.75	0.00	0.01	
P-353	101.00	4.00	120.00	Open	3.00	2297.76	2297.75	0.00	0.01	
P-354	220.00	8.00	120.00	Open	83.96	2297.62	2297.57	0.05	0.22	
P-356	130.00	8.00	120.00	Open	83.96	2297.57	2297.54	0.03	0.22	
P-357	226.00	8.00	120.00	Open	72.98	2297.62	2297.58	0.04	0.17	
P-358	414.00	8.00	120.00	Open	-52.98	2297.54	2297.58	0.04	0.09	
P-359	49.00	8.00	120.00	Open	136.94	2297.54	2297.52	0.03	0.53	
P-360	138.00	16.00	100.00	Open	-2097.15	2317.84	2318.40	0.55	4.00	
P-361	63.00	8.00	120.00	Open	0.00	2297.57	2297.57	0.00	0.00	
P-364	135.00	4.00	120.00	Open	4.00	2297.55	2297.55	0.00	0.02	
P-365	97.00	4.00	120.00	Open	16.00	2297.58	2297.55	0.03	0.29	
P-366	65.00	4.00	120.00	Open	4.00	2297.55	2297.55	0.00	0.02	
P-367	64.00	4.00	120.00	Open	4.00	2297.55	2297.55	0.00	0.02	
P-368	1673.00	20.00	120.00	Open	-2722.89	2304.69	2307.30	2.61	1.56	
P-370	371.00	12.00	120.00	Open	10.00	2307.30	2307.30	0.00	0.00	
P-375	874.00	16.00	120.00	Open	3344.37	2232.27	2226.35	5.92	6.77	
P-388	518.00	8.00	120.00	Open	7.18	2264.42	2264.41	0.00	0.00	
P-389	406.00	8.00	120.00	Open	6.82	2264.42	2264.41	0.00	0.00	
P-391	412.00	8.00	120.00	Open	8.00	2264.43	2264.43	0.00	0.00	
P-392	369.00	8.00	120.00	Open	14.00	2264.41	2264.41	0.00	0.01	
P-394	409.00	8.00	120.00	Open	128.98	2297.96	2297.77	0.20	0.48	
P-395	20.00	8.00	120.00	Open	118.98	2297.77	2297.76	0.01	0.42	
P-396	243.00	8.00	120.00	Open	10.00	2297.77	2297.76	0.00	0.00	
P-398	20.00	8.00	120.00	Open	-2.59	2297.76	2297.76	0.00	0.00	
P-399	200.00	8.00	120.00	Open	2.41	2297.76	2297.76	0.00	0.00	
P-400	154.00	8.00	120.00	Open	-2.59	2297.76	2297.76	0.00	0.00	
P-402	312.00	12.00	120.00	Open	374.07	2270.27	2270.12	0.15	0.48	
P-403	162.00	8.00	120.00	Open	35.00	2270.27	2270.26	0.01	0.04	
P-404	401.00	8.00	120.00	Open	18.38	2265.45	2265.45	0.01	0.01	
P-405	39.00	8.00	120.00	Open	0.39	2265.45	2265.45	0.00	0.00	
P-407	371.00	8.00	120.00	Open	9.50	2265.44	2265.44	0.00	0.00	
P-408	31.00	8.00	120.00	Open	0.00	2265.44	2265.44	0.00	0.00	
P-409	509.00	8.00	120.00	Open	18.00	2265.45	2265.44	0.01	0.01	
P-410	493.00	16.00	120.00	Open	-1694.33	2293.83	2294.78	0.95	1.92	
P-411	106.00	8.00	120.00	Open	9.50	2265.44	2265.44	0.00	0.00	
P-412	77.00	8.00	120.00	Open	17.67	2276.84	2276.84	0.00	0.01	
P-417	284.00	12.00	120.00	Open	409.07	2270.61	2270.45	0.16	0.56	
P-418	327.00	12.00	120.00	Open	409.07	2270.45	2270.27	0.18	0.56	
P-419	506.00	8.00	120.00	Open	-5.42	2276.84	2276.84	0.00	0.00	
P-420	809.00	16.00	120.00	Open	-1816.60	2292.06	2293.83	1.77	2.19	
P-421	421.00	8.00	120.00	Open	-17.42	2276.84	2276.84	0.00	0.01	
P-422	148.00	8.00	120.00	Open	-0.82	2264.41	2264.41	0.00	0.00	
P-423	1849.00	10.00	120.00	Open	47.17	2267.19	2267.14	0.05	0.02	
P-424	779.00	8.00	120.00	Open	13.88	2267.14	2267.13	0.01	0.01	
P-425	789.00	8.00	120.00	Open	6.88	2267.13	2267.13	0.00	0.00	
P-426	614.00	8.00	120.00	Open	0.88	2267.13	2267.13	0.00	0.00	
P-427	54.00	8.00	120.00	Open	-32.15	2267.13	2267.13	0.00	0.04	
P-428	34.00	8.00	120.00	Open	22.53	2267.13	2267.13	0.00	0.02	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-429	35.00	8.00	120.00	Open	26.29	2267.14	2267.14	0.00	0.03	
P-431	1182.00	12.00	120.00	Open	-76.85	2267.16	2267.19	0.03	0.03	
P-432	1572.00	12.00	120.00	Open	-124.02	2267.19	2267.28	0.10	0.06	
P-433	84.00	10.00	120.00	Open	-47.17	2267.19	2267.19	0.00	0.02	
P-436	155.00	8.00	120.00	Open	17.68	2264.42	2264.42	0.00	0.01	
P-437	157.00	8.00	120.00	Open	10.68	2264.42	2264.42	0.00	0.00	
P-438	189.00	8.00	120.00	Open	3.00	2264.42	2264.42	0.00	0.00	
P-439	1075.00	12.00	120.00	Open	8.99	2302.18	2302.18	0.00	0.00	
P-440	256.00	16.00	120.00	Open	-1646.47	2275.74	2276.21	0.47	1.82	
P-441	198.00	12.00	120.00	Open	0.99	2302.18	2302.18	0.00	0.00	
P-442	578.00	12.00	120.00	Open	6.00	2302.18	2302.18	0.00	0.00	
P-443	330.00	12.00	120.00	Open	6.00	2302.18	2302.18	0.00	0.00	
P-444	398.00	12.00	120.00	Open	6.00	2302.18	2302.18	0.00	0.00	
P-445	464.00	16.00	120.00	Open	1646.47	2277.05	2276.21	0.85	1.82	
P-446	306.00	12.00	120.00	Open	6.00	2302.18	2302.18	0.00	0.00	
P-449	1087.00	10.00	120.00	Open	30.22	2267.17	2267.16	0.01	0.01	
P-450	337.00	16.00	120.00	Open	-1436.24	2275.26	2275.74	0.48	1.41	
P-451	31.00	8.00	120.00	Open	2.42	2267.17	2267.17	0.00	0.00	
P-453	411.00	8.00	120.00	Open	2.58	2267.17	2267.17	0.00	0.00	
P-454	308.00	16.00	100.00	Open	-298.94	2273.53	2273.56	0.03	0.11	
P-455	97.00	16.00	100.00	Open	-298.94	2273.56	2273.57	0.01	0.11	
P-456	340.00	8.00	120.00	Open	12.49	2267.73	2267.73	0.00	0.01	
P-457	237.00	8.00	120.00	Open	8.32	2267.73	2267.73	0.00	0.00	
P-458	246.00	8.00	120.00	Open	4.17	2267.73	2267.73	0.00	0.00	
P-460	469.00	16.00	120.00	Open	-1432.85	2274.60	2275.26	0.66	1.41	
P-461	565.00	20.00	120.00	Open	-2760.26	2310.50	2311.40	0.90	1.60	
P-462	44.00	6.00	120.00	Open	0.00	2310.50	2310.50	0.00	0.00	
P-463	100.00	6.00	120.00	Open	10.71	2264.42	2264.41	0.00	0.02	
P-464	228.00	6.00	120.00	Open	4.71	2264.41	2264.41	0.00	0.00	
P-465	258.00	8.00	120.00	Open	3.00	2264.41	2264.41	0.00	0.00	
P-469	69.00	8.00	120.00	Open	0.69	2267.14	2267.14	0.00	0.00	
P-470	1063.00	16.00	120.00	Open	-1362.47	2273.24	2274.60	1.36	1.28	
P-471	218.00	4.00	120.00	Open	-3.33	2276.99	2277.00	0.00	0.02	
P-472	181.00	8.00	120.00	Open	1.94	2277.00	2277.00	0.00	0.00	
P-473	254.00	8.00	120.00	Open	-4.72	2277.00	2277.00	0.00	0.00	
P-475	154.00	8.00	120.00	Open	6.75	2277.00	2277.00	0.00	0.00	
P-476	115.00	8.00	120.00	Open	11.56	2277.00	2277.00	0.00	0.00	
P-478	93.00	8.00	120.00	Open	16.65	2277.00	2277.00	0.00	0.01	
P-480	271.00	16.00	120.00	Open	-1068.35	2273.02	2273.24	0.22	0.82	
P-481	68.00	8.00	120.00	Open	6.66	2277.00	2277.00	0.00	0.00	
P-482	59.00	4.00	120.00	Open	3.33	2277.00	2277.00	0.00	0.02	
P-483	84.00	8.00	120.00	Open	-4.81	2277.00	2277.00	0.00	0.00	
P-484	204.00	8.00	120.00	Open	-4.81	2277.00	2277.00	0.00	0.00	
P-485	41.00	8.00	120.00	Open	8.60	2277.00	2277.00	0.00	0.01	
P-486	31.00	8.00	120.00	Open	8.60	2277.00	2277.00	0.00	0.00	
P-488	494.00	12.00	120.00	Open	8.73	2264.44	2264.44	0.00	0.00	
P-489	566.00	8.00	120.00	Open	41.15	2264.44	2264.41	0.03	0.06	
P-491	167.00	8.00	120.00	Open	41.15	2264.41	2264.40	0.01	0.06	
P-492	564.00	8.00	120.00	Open	41.15	2264.40	2264.36	0.03	0.06	
P-493	702.00	8.00	120.00	Open	41.15	2264.36	2264.32	0.04	0.06	
P-494	448.00	8.00	120.00	Open	-68.85	2264.32	2264.39	0.07	0.15	
P-495	350.00	8.00	120.00	Open	-68.85	2264.39	2264.44	0.05	0.15	
P-496	956.00	12.00	120.00	Open	118.73	2264.51	2264.45	0.05	0.06	
P-497	1300.00	12.00	120.00	Open	49.88	2264.45	2264.44	0.01	0.01	
P-498	72.00	8.00	120.00	Open	68.85	2264.45	2264.44	0.01	0.15	
P-499	433.00	8.00	120.00	Open	0.00	2264.41	2264.41	0.00	0.00	
P-503	40.00	8.00	120.00	Open	14.22	2267.81	2267.81	0.00	0.01	
P-504	662.00	8.00	120.00	Open	24.35	2267.81	2267.80	0.01	0.02	
P-505	359.00	12.00	120.00	Open	-114.89	2267.80	2267.81	0.02	0.05	
P-506	52.00	12.00	120.00	Open	-118.45	2267.81	2267.82	0.00	0.06	
P-507	106.00	8.00	120.00	Open	-1.44	2267.81	2267.81	0.00	0.00	
P-508	361.00	8.00	120.00	Open	18.63	2267.81	2267.81	0.00	0.01	
P-509	262.00	6.00	120.00	Open	6.50	2290.70	2290.69	0.00	0.01	
P-511	5215.00	16.00	120.00	Open	-2001.17	2277.05	2290.70	13.64	2.62	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream			Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)	Headloss (ft)	
P-512	520.00	16.00	120.00	Open	-2007.67	2290.70	2292.06	1.37	2.63	
P-515	388.00	8.00	120.00	Open	-218.72	2293.91	2294.41	0.49	1.27	
P-516	279.00	8.00	120.00	Open	20.40	2293.91	2293.91	0.00	0.02	
P-517	49.00	6.00	120.00	Open	20.40	2293.91	2293.91	0.00	0.06	
P-518	182.00	6.00	120.00	Open	20.40	2293.91	2293.89	0.01	0.06	
P-525	78.00	8.00	120.00	Open	110.00	2264.32	2264.30	0.03	0.35	
P-526	40.00	4.00	120.00	Open	110.00	2264.30	2263.88	0.42	10.40	
P-527	2686.00	12.00	120.00	Open	12.57	2267.14	2267.14	0.00	0.00	
P-528	2324.00	12.00	120.00	Open	9.79	2267.14	2267.14	0.00	0.00	
P-529	682.00	8.00	120.00	Open	2.09	2267.14	2267.14	0.00	0.00	
P-531	5063.00	6.00	120.00	Open	1.82	2267.14	2267.14	0.00	0.00	
P-532	651.00	8.00	120.00	Open	2.09	2267.14	2267.14	0.00	0.00	
P-533	139.00	8.00	120.00	Open	6.50	2290.70	2290.70	0.00	0.00	
P-534	315.00	8.00	120.00	Open	6.50	2290.70	2290.70	0.00	0.00	
P-535	188.00	8.00	120.00	Open	-198.32	2292.22	2292.41	0.20	1.06	
P-536	1416.00	8.00	120.00	Open	-198.32	2292.41	2293.91	1.50	1.06	
P-537	371.00	8.00	120.00	Open	7.64	2267.73	2267.73	0.00	0.00	
P-539	85.00	8.00	120.00	Open	1.00	2267.47	2267.47	0.00	0.00	
P-541	203.00	8.00	120.00	Open	1.00	2267.47	2267.47	0.00	0.00	
P-546	147.00	8.00	120.00	Open	3.37	2267.06	2267.06	0.00	0.00	
P-547	118.00	8.00	120.00	Open	3.37	2267.06	2267.06	0.00	0.00	
P-548	114.00	8.00	120.00	Open	3.37	2267.06	2267.06	0.00	0.00	
P-549	219.00	6.00	120.00	Open	3.00	2267.06	2267.06	0.00	0.00	
P-550	397.00	16.00	100.00	Open	-0.74	2298.15	2298.15	0.00	0.00	
P-551	110.00	8.00	120.00	Open	-2.63	2267.06	2267.06	0.00	0.00	
P-552	307.00	6.00	120.00	Open	4.00	2267.06	2267.06	0.00	0.00	
P-554	265.00	8.00	120.00	Open	16.83	2267.07	2267.06	0.00	0.01	
P-555	2140.00	8.00	120.00	Open	0.19	2267.06	2267.06	0.00	0.00	
P-556	182.00	8.00	120.00	Open	16.63	2267.06	2267.06	0.00	0.01	
P-557	330.00	8.00	120.00	Open	15.63	2267.06	2267.06	0.00	0.01	
P-558	360.00	8.00	120.00	Open	-10.13	2267.06	2267.06	0.00	0.00	
P-559	113.00	8.00	120.00	Open	-13.63	2267.06	2267.06	0.00	0.01	
P-560	138.00	16.00	100.00	Open	76.61	2298.15	2298.15	0.00	0.01	
P-570	335.00	16.00	120.00	Open	324.26	2298.15	2298.12	0.03	0.09	
P-590	304.00	16.00	120.00	Open	1946.30	2297.35	2296.60	0.76	2.48	
P-592	291.00	6.00	120.00	Open	-6.45	2268.94	2268.94	0.00	0.01	
P-593	333.00	6.00	120.00	Open	29.63	2268.94	2268.90	0.04	0.13	
P-595	54.00	6.00	120.00	Open	-50.00	2268.99	2269.01	0.02	0.33	
P-596	319.00	8.00	120.00	Open	-39.58	2268.94	2268.96	0.02	0.05	
P-597	451.00	8.00	120.00	Open	-45.83	2268.96	2268.99	0.03	0.07	
P-598	815.00	8.00	120.00	Open	-8.18	2271.44	2271.44	0.00	0.00	
P-599	344.00	8.00	120.00	Open	0.00	2271.44	2271.44	0.00	0.00	
P-600	438.00	16.00	120.00	Open	1946.30	2296.60	2295.51	1.09	2.48	
P-601	451.00	8.00	90.00	Open	-61.52	2271.12	2271.22	0.09	0.21	
P-602	238.00	8.00	90.00	Open	-98.85	2271.22	2271.33	0.12	0.50	
P-603	788.00	8.00	120.00	Open	37.33	2271.22	2271.18	0.04	0.05	
P-618	602.00	8.00	120.00	Open	18.53	2267.13	2267.12	0.01	0.01	
P-619	503.00	8.00	120.00	Open	-38.65	2267.13	2267.16	0.03	0.05	
P-620	262.00	16.00	100.00	Open	2374.90	2292.48	2291.16	1.32	5.04	
P-621	37.00	8.00	120.00	Open	-53.38	2267.16	2267.16	0.00	0.09	
P-622	255.00	8.00	120.00	Open	2.60	2267.16	2267.16	0.00	0.00	
P-623	49.00	8.00	120.00	Open	-9.53	2267.16	2267.16	0.00	0.00	
P-625	126.00	8.00	120.00	Open	349.41	2297.21	2296.83	0.38	3.02	
P-626	301.00	16.00	120.00	Open	506.06	2298.07	2298.01	0.06	0.20	
P-627	138.00	16.00	120.00	Open	282.59	2298.01	2298.00	0.01	0.07	
P-629	847.00	8.00	120.00	Open	-13.54	2271.30	2271.31	0.01	0.01	
P-630	95.00	16.00	100.00	Open	2373.15	2291.16	2290.68	0.48	5.03	
P-631	536.00	8.00	120.00	Open	26.60	2271.30	2271.29	0.01	0.03	
P-632	285.00	8.00	120.00	Open	-16.79	2271.30	2271.31	0.00	0.01	
P-634	352.00	8.00	120.00	Open	15.26	2271.31	2271.31	0.00	0.01	
P-635	428.00	8.00	120.00	Open	5.00	2271.31	2271.31	0.00	0.00	
P-636	632.00	8.00	120.00	Open	-3.26	2271.30	2271.30	0.00	0.00	
P-637	74.00	8.00	120.00	Open	0.00	2271.30	2271.30	0.00	0.00	
P-638	713.00	8.00	120.00	Open	-10.26	2271.30	2271.31	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-640	938.00	16.00	100.00	Open	1988.29	2290.68	2287.29	3.40	3.62	
P-643	675.00	8.00	120.00	Open	-197.66	2297.21	2297.92	0.71	1.05	
P-644	69.00	8.00	120.00	Open	-223.47	2297.92	2298.01	0.09	1.32	
P-645	175.00	8.00	120.00	Open	-34.56	2268.98	2268.99	0.01	0.04	
P-646	177.00	8.00	120.00	Open	-35.76	2268.99	2269.00	0.01	0.04	
P-647	414.00	8.00	120.00	Open	0.00	2270.42	2270.42	0.00	0.00	
P-648	165.00	8.00	120.00	Open	0.00	2270.42	2270.42	0.00	0.00	
P-650	618.00	16.00	100.00	Open	2369.08	2287.29	2284.19	3.10	5.01	
P-651	56.00	4.00	120.00	Open	0.00	2270.42	2270.42	0.00	0.00	
P-660	622.00	16.00	100.00	Open	2368.96	2284.19	2281.07	3.12	5.01	
P-664	28.00	8.00	120.00	Open	0.00	2314.98	2314.98	0.00	0.00	
P-666	25.00	8.00	120.00	Open	0.00	2315.56	2315.56	0.00	0.00	
P-668	479.00	8.00	120.00	Open	316.09	2317.78	2316.58	1.20	2.51	
P-669	98.00	8.00	120.00	Open	4.00	2316.58	2316.58	0.00	0.00	
P-670	305.00	16.00	100.00	Open	2368.57	2281.07	2279.54	1.53	5.01	
P-671	24.00	8.00	120.00	Open	312.09	2316.58	2316.52	0.06	2.45	
P-673	170.00	8.00	120.00	Open	-224.08	2314.60	2314.83	0.23	1.33	
P-674	79.00	8.00	120.00	Open	-232.08	2314.83	2314.94	0.11	1.42	
P-675	29.00	8.00	120.00	Open	-240.08	2314.94	2314.98	0.04	1.51	
P-676	132.00	8.00	120.00	Open	-248.09	2314.98	2315.19	0.21	1.60	
P-677	160.00	8.00	120.00	Open	-256.09	2315.19	2315.46	0.27	1.70	
P-678	51.00	8.00	120.00	Open	-264.09	2315.46	2315.56	0.09	1.80	
P-679	32.00	8.00	120.00	Open	-272.09	2315.56	2315.62	0.06	1.90	
P-680	14.00	16.00	100.00	Open	2158.71	2279.54	2279.48	0.06	4.22	
P-681	127.00	8.00	120.00	Open	-280.09	2315.62	2315.87	0.25	2.01	
P-683	56.00	8.00	120.00	Open	-304.09	2316.39	2316.52	0.13	2.33	
P-684	126.00	8.00	120.00	Open	-288.09	2315.87	2316.14	0.27	2.11	
P-685	112.00	8.00	120.00	Open	-296.09	2316.14	2316.39	0.25	2.23	
P-686	437.00	8.00	120.00	Open	-208.08	2313.98	2314.49	0.51	1.16	
P-687	90.00	8.00	120.00	Open	-216.08	2314.49	2314.60	0.11	1.24	
P-688	318.00	6.00	120.00	Open	36.44	2277.03	2276.97	0.06	0.19	
P-689	519.00	6.00	120.00	Open	34.44	2276.97	2276.89	0.09	0.17	
P-690	577.00	16.00	100.00	Open	1867.34	2279.48	2277.62	1.86	3.23	
P-691	369.00	8.00	120.00	Open	2.00	2276.97	2276.97	0.00	0.00	
P-692	1148.00	8.00	120.00	Open	-208.08	2312.65	2313.98	1.33	1.16	
P-700	218.00	16.00	100.00	Open	1824.69	2277.62	2276.95	0.67	3.09	
P-705	413.00	16.00	120.00	Open	-1151.93	2270.18	2270.57	0.39	0.94	
P-708	610.00	8.00	120.00	Open	-32.77	2269.12	2269.14	0.02	0.04	
P-709	22.00	8.00	120.00	Open	-45.82	2269.14	2269.14	0.00	0.07	
P-710a	258.00	16.00	100.00	Open	1345.90	2276.52	2276.07	0.45	1.76	
P-710b	154.00	16.00	100.00	Open	1714.35	2276.95	2276.52	0.42	2.75	
P-712	27.00	8.00	120.00	Open	0.00	2269.10	2269.10	0.00	0.00	
P-715	434.00	16.00	120.00	Open	-1169.36	2270.57	2270.99	0.42	0.97	
P-720	460.00	16.00	100.00	Open	1432.34	2276.07	2275.16	0.91	1.97	
P-725	567.00	16.00	120.00	Open	-1169.36	2270.99	2271.54	0.55	0.97	
P-726	865.00	12.00	120.00	Open	-150.00	2311.07	2311.14	0.08	0.09	
P-727	2370.00	12.00	120.00	Open	-169.50	2311.14	2311.40	0.26	0.11	
P-728	76.00	8.00	120.00	Open	19.50	2311.14	2311.14	0.00	0.02	
P-729	89.00	8.00	120.00	Open	9.00	2311.14	2311.14	0.00	0.00	
P-730	18.00	16.00	100.00	Open	1432.27	2275.16	2275.13	0.04	1.98	
P-731	291.00	8.00	120.00	Open	1.50	2311.14	2311.14	0.00	0.00	
P-732	303.00	12.00	120.00	Open	0.69	2302.18	2302.18	0.00	0.00	
P-733	585.00	12.00	120.00	Open	0.69	2302.18	2302.18	0.00	0.00	
P-734	458.00	12.00	120.00	Open	0.69	2302.18	2302.18	0.00	0.00	
P-735	790.00	16.00	120.00	Open	239.19	2271.54	2271.50	0.04	0.05	
P-736	228.00	12.00	120.00	Open	-444.44	2268.95	2269.10	0.15	0.65	
P-737	24.00	12.00	120.00	Open	-444.45	2269.10	2269.12	0.02	0.65	
P-738	604.00	8.00	120.00	Open	0.00	2269.10	2269.10	0.00	0.00	
P-739	563.00	12.00	120.00	Open	0.69	2302.18	2302.18	0.00	0.00	
P-740a	584.00	16.00	100.00	Open	1415.49	2275.10	2273.98	1.13	1.93	
P-740b	14.00	16.00	100.00	Open	1252.70	2275.13	2275.10	0.02	1.53	
P-741	355.00	12.00	120.00	Open	0.69	2302.18	2302.18	0.00	0.00	
P-742	401.00	12.00	120.00	Open	0.00	2302.18	2302.18	0.00	0.00	
P-743	530.00	12.00	120.00	Open	0.00	2302.18	2302.18	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-744	44.00	12.00	120.00	Open	0.00	2302.18	2302.18	0.00	0.00	
P-745	157.00	16.00	120.00	Open	1408.55	2271.75	2271.54	0.21	1.37	
P-746	213.00	6.00	120.00	Open	1.84	2270.29	2270.29	0.00	0.00	
P-747	356.00	6.00	120.00	Open	1.15	2270.29	2270.29	0.00	0.00	
P-748	303.00	6.00	120.00	Open	0.69	2270.29	2270.29	0.00	0.00	
P-750	838.00	16.00	100.00	Open	836.30	2273.98	2273.37	0.61	0.73	
P-753	191.00	8.00	120.00	Open	4.86	2298.01	2298.01	0.00	0.00	
P-754	230.00	16.00	120.00	Open	324.26	2298.12	2298.10	0.02	0.09	
P-755	298.00	16.00	120.00	Open	-1408.55	2271.75	2272.16	0.41	1.36	
P-756	16.00	16.00	120.00	Open	253.44	2298.10	2298.10	0.00	0.06	
P-757	625.00	8.00	120.00	Open	-65.96	2298.01	2298.10	0.09	0.14	
P-758	1022.00	6.00	100.00	Open	0.32	2298.07	2298.07	0.00	0.00	
P-760	56.00	16.00	100.00	Open	327.85	2273.37	2273.36	0.01	0.13	
P-761	29.00	6.00	120.00	Open	0.32	2298.07	2298.07	0.00	0.00	
P-762	1254.00	6.00	100.00	Open	0.32	2298.07	2298.07	0.00	0.00	
P-763	298.00	16.00	120.00	Open	-44.96	2298.00	2298.00	0.00	0.00	
P-764	700.00	16.00	120.00	Open	11.28	2298.00	2298.00	0.00	0.00	
P-765	163.00	8.00	120.00	Open	56.24	2298.01	2298.00	0.02	0.10	
P-770	63.00	16.00	100.00	Open	728.57	2273.36	2273.32	0.04	0.57	
P-775	1062.00	16.00	120.00	Open	239.19	2271.50	2271.44	0.05	0.05	
P-778	144.00	8.00	120.00	Open	11.79	2267.14	2267.13	0.00	0.01	
P-779	368.00	8.00	120.00	Open	-55.98	2267.16	2267.20	0.04	0.10	
P-780	127.00	16.00	100.00	Open	-109.75	2273.32	2273.33	0.00	0.02	
P-781	301.00	8.00	120.00	Open	61.08	2267.24	2267.20	0.04	0.12	
P-782	79.00	10.00	120.00	Open	54.77	2267.48	2267.47	0.00	0.03	
P-783	534.00	10.00	120.00	Open	2.00	2267.47	2267.47	0.00	0.00	
P-784	1708.00	8.00	120.00	Open	66.18	2267.47	2267.24	0.24	0.14	
P-785	154.00	8.00	120.00	Open	0.00	2267.20	2267.20	0.00	0.00	
P-786	57.00	8.00	120.00	Open	0.00	2267.24	2267.24	0.00	0.00	
P-787	405.00	8.00	120.00	Open	-182.21	2275.15	2275.51	0.37	0.90	
P-788	516.00	8.00	115.00	Open	183.37	2276.42	2275.91	0.51	0.99	
P-789	401.00	8.00	115.00	Open	183.37	2275.91	2275.51	0.40	0.99	
P-790	87.00	16.00	100.00	Open	-400.72	2273.36	2273.38	0.02	0.19	
P-800	347.00	16.00	100.00	Open	-458.31	2273.38	2273.46	0.08	0.24	
P-804	621.00	6.00	115.00	Open	-1.35	2268.98	2268.98	0.00	0.00	
P-805	117.00	8.00	120.00	Open	-1.35	2268.98	2268.98	0.00	0.00	
P-810	165.00	16.00	100.00	Open	-464.38	2273.46	2273.50	0.04	0.25	
P-820	201.00	16.00	100.00	Open	-333.84	2273.50	2273.53	0.03	0.13	
P-825	2119.00	16.00	120.00	Open	-2946.98	2317.84	2329.20	11.35	5.36	
P-835	502.00	16.00	120.00	Open	-2929.77	2315.18	2317.84	2.66	5.30	
P-840	204.00	16.00	100.00	Open	-299.52	2273.57	2273.59	0.02	0.11	
P-843	39.00	16.00	100.00	Open	-356.14	2273.59	2273.60	0.01	0.15	
P-845	293.00	16.00	100.00	Open	74.92	2273.60	2273.59	0.00	0.01	
P-847	307.00	12.00	120.00	Open	-431.05	2273.60	2273.79	0.19	0.62	
P-848	252.00	12.00	120.00	Open	-99.65	2273.79	2273.80	0.01	0.04	
P-849	186.00	12.00	100.00	Open	-326.64	2273.59	2273.69	0.10	0.52	
P-850	70.00	12.00	100.00	Open	0.00	2273.69	2273.69	0.00	0.00	
P-851	287.00	12.00	120.00	Open	326.64	2273.80	2273.69	0.11	0.37	
P-852	2310.00	12.00	120.00	Open	19.60	2271.29	2271.28	0.00	0.00	
P-853	609.00	12.00	120.00	Open	19.60	2271.28	2271.28	0.00	0.00	
P-854	1030.00	12.00	120.00	Open	12.70	2271.28	2271.28	0.00	0.00	
P-855	132.00	12.00	120.00	Open	12.70	2271.28	2271.28	0.00	0.00	
P-856	356.00	12.00	120.00	Open	6.90	2271.28	2271.28	0.00	0.00	
P-857	181.00	12.00	120.00	Open	6.90	2271.28	2271.28	0.00	0.00	
P-867	23.00	4.00	120.00	Open	0.00	2271.28	2271.28	0.00	0.00	
P-869	57.00	4.00	120.00	Open	0.00	2271.28	2271.28	0.00	0.00	
P-875	214.00	8.00	120.00	Open	17.67	2276.84	2276.83	0.00	0.01	
P-876	387.00	8.00	120.00	Open	0.99	2276.83	2276.83	0.00	0.00	
P-877	197.00	8.00	120.00	Open	9.14	2276.83	2276.83	0.00	0.00	
P-878	918.00	8.00	120.00	Open	4.36	2276.83	2276.83	0.00	0.00	
P-880	148.00	16.00	115.00	Open	18.30	2302.18	2302.18	0.00	0.00	
P-882	158.00	10.00	120.00	Open	0.19	2276.83	2276.83	0.00	0.00	
P-883	495.00	10.00	120.00	Open	-3.98	2276.83	2276.83	0.00	0.00	
P-884	226.00	10.00	120.00	Open	0.00	2276.83	2276.83	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-885	97.00	8.00	120.00	Open	0.00	2276.83	2276.83	0.00	0.00	
P-890	30.00	16.00	120.00	Open	14.22	2302.18	2302.18	0.00	0.00	
P-895	187.00	8.00	120.00	Open	-5.00	2267.17	2267.17	0.00	0.00	
P-896	750.00	8.00	120.00	Open	2.58	2267.17	2267.17	0.00	0.00	
P-897	824.00	10.00	120.00	Open	41.22	2267.19	2267.18	0.02	0.02	
P-898	358.00	10.00	120.00	Open	32.64	2267.18	2267.17	0.00	0.01	
P-899	1463.00	8.00	120.00	Open	-8.08	2267.17	2267.18	0.00	0.00	
P-900	940.00	16.00	100.00	Open	2084.04	2230.39	2226.67	3.72	3.95	
P-901	623.00	8.00	120.00	Open	11.10	2267.13	2267.13	0.00	0.01	
P-902	784.00	8.00	120.00	Open	7.40	2267.13	2267.13	0.00	0.00	
P-903	980.00	8.00	120.00	Open	3.70	2267.13	2267.13	0.00	0.00	
P-904	540.00	16.00	100.00	Open	2375.89	2295.51	2292.79	2.72	5.04	
P-905	61.00	16.00	100.00	Open	2375.88	2292.79	2292.48	0.31	5.04	
P-906	552.00	8.00	120.00	Open	0.00	2292.79	2292.79	0.00	0.00	
P-907	557.00	8.00	120.00	Open	4.62	2267.16	2267.16	0.00	0.00	
P-908	144.00	8.00	120.00	Open	2.31	2267.16	2267.16	0.00	0.00	
P-910	93.00	16.00	120.00	Open	-480.04	2269.18	2269.19	0.02	0.19	
P-915	339.00	8.00	120.00	Open	32.76	2270.29	2270.28	0.01	0.04	
P-917	969.00	16.00	120.00	Open	1701.59	2296.66	2294.78	1.88	1.94	
P-918	143.00	8.00	120.00	Open	-118.34	2296.66	2296.72	0.06	0.41	
P-920	122.00	16.00	120.00	Open	-480.65	2269.19	2269.22	0.02	0.19	
P-921	47.00	8.00	120.00	Open	0.00	2296.72	2296.72	0.00	0.00	
P-922	438.00	8.00	120.00	Open	-122.99	2296.72	2296.91	0.19	0.44	
P-923	316.00	8.00	120.00	Open	-127.64	2296.91	2297.06	0.15	0.47	
P-924	922.00	8.00	120.00	Open	-132.29	2297.06	2297.52	0.46	0.50	
P-925	206.00	8.00	120.00	Open	0.53	2267.23	2267.23	0.00	0.00	
P-927	233.00	8.00	120.00	Open	167.41	2297.53	2297.35	0.18	0.77	
P-928	186.00	8.00	120.00	Open	167.41	2297.35	2297.21	0.14	0.77	
P-929	22.00	6.00	120.00	Open	15.67	2297.21	2297.21	0.00	0.03	
P-930	388.00	16.00	120.00	Open	-510.49	2269.22	2269.30	0.08	0.21	
P-931	241.00	8.00	120.00	Open	15.67	2297.21	2297.21	0.00	0.01	
P-932	999.00	8.00	120.00	Open	18.51	2267.49	2267.47	0.01	0.01	
P-937	539.00	16.00	120.00	Closed	0.00	2298.00	2298.07	0.00	0.00	
P-939	1679.00	20.00	120.00	Open	-2929.76	2311.40	2314.40	3.00	1.79	
P-940	861.00	16.00	120.00	Open	-640.49	2269.30	2269.57	0.27	0.32	
P-941	22.00	6.00	120.00	Open	0.00	2298.07	2298.07	0.00	0.00	
P-942	368.00	20.00	120.00	Open	-2929.77	2314.40	2315.06	0.66	1.79	
P-943	462.00	8.00	120.00	Open	0.00	2314.40	2314.40	0.00	0.00	
P-944	224.00	8.00	120.00	Open	0.00	2314.40	2314.40	0.00	0.00	
P-947	151.00	8.00	120.00	Open	-79.52	2273.02	2273.05	0.03	0.20	
P-948	903.00	8.00	120.00	Open	-80.21	2273.05	2273.23	0.18	0.20	
P-949	392.00	8.00	120.00	Open	0.69	2273.05	2273.05	0.00	0.00	
P-950	194.00	16.00	120.00	Open	-642.80	2269.57	2269.63	0.06	0.32	
P-954	297.00	8.00	120.00	Open	-3.00	2267.12	2267.12	0.00	0.00	
P-955	374.00	8.00	120.00	Open	2.10	2267.12	2267.12	0.00	0.00	
P-956	458.00	8.00	120.00	Open	10.53	2267.12	2267.12	0.00	0.00	
P-957	208.00	8.00	120.00	Open	2.21	2267.12	2267.12	0.00	0.00	
P-958	14.00	8.00	120.00	Open	3.11	2267.12	2267.12	0.00	0.00	
P-959	243.00	8.00	120.00	Open	-10.31	2267.12	2267.12	0.00	0.00	
P-960	274.00	16.00	120.00	Open	-642.80	2269.63	2269.72	0.09	0.32	
P-962	312.00	8.00	120.00	Open	2.78	2267.12	2267.12	0.00	0.00	
P-970	64.00	16.00	120.00	Open	-975.56	2269.72	2269.76	0.04	0.69	
P-971	270.00	20.00	120.00	Open	-2742.89	2307.30	2307.73	0.43	1.58	
P-972	1731.00	20.00	120.00	Open	-2760.26	2307.73	2310.50	2.77	1.60	
P-973	157.00	12.00	120.00	Open	-5.79	2307.73	2307.73	0.00	0.00	
P-974	368.00	12.00	120.00	Open	11.58	2307.73	2307.73	0.00	0.00	
P-975	106.00	8.00	120.00	Open	8.32	2267.73	2267.73	0.00	0.00	
P-976	174.00	8.00	120.00	Open	3.05	2267.73	2267.73	0.00	0.00	
P-977	346.00	8.00	120.00	Open	0.97	2267.73	2267.73	0.00	0.00	
P-978	218.00	8.00	120.00	Open	2.08	2267.73	2267.73	0.00	0.00	
P-979	198.00	8.00	120.00	Open	-3.19	2267.73	2267.73	0.00	0.00	
P-980	568.00	16.00	120.00	Open	-975.56	2269.76	2270.16	0.39	0.69	
P-984	1713.00	8.00	120.00	Open	28.35	2267.14	2267.09	0.05	0.03	
P-986	238.00	8.00	120.00	Open	0.35	2267.09	2267.09	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-990	35.00	16.00	120.00	Open	-999.98	2270.16	2270.18	0.03	0.72	
P-991	16.00	8.00	120.00	Open	-13.51	2269.37	2269.37	0.00	0.02	
P-992	253.00	8.00	120.00	Open	1.67	2269.37	2269.37	0.00	0.00	
P-993	337.00	8.00	120.00	Open	24.86	2269.59	2269.58	0.01	0.02	
P-994	157.00	8.00	120.00	Open	-60.75	2269.58	2269.60	0.02	0.12	
P-996	305.00	8.00	120.00	Open	70.43	2269.37	2269.32	0.05	0.16	
P-998	797.00	8.00	120.00	Open	7.00	2264.44	2264.44	0.00	0.00	
P-999	49.00	12.00	100.00	Open	350.76	2269.88	2269.85	0.03	0.59	
P-1000	30.00	12.00	120.00	Open	-2481.43	2328.72	2329.20	0.47	15.82	
P-1001	546.00	12.00	100.00	Open	335.48	2269.85	2269.55	0.30	0.55	
P-1002	437.00	8.00	120.00	Open	7.64	2269.85	2269.85	0.00	0.00	
P-1003	403.00	8.00	120.00	Open	27.65	2267.09	2267.08	0.01	0.03	
P-1004	411.00	8.00	120.00	Open	27.65	2267.08	2267.07	0.01	0.03	
P-1005	762.00	8.00	120.00	Open	-15.87	2267.12	2267.13	0.01	0.01	
P-1006	527.00	8.00	120.00	Open	-21.08	2267.13	2267.14	0.01	0.02	
P-1007	28.00	12.00	120.00	Open	4.64	2271.28	2271.28	0.00	0.00	
P-1008	85.00	8.00	120.00	Open	1.74	2271.28	2271.28	0.00	0.00	
P-1009	305.00	8.00	120.00	Open	85.60	2269.58	2269.52	0.07	0.22	
P-1010	28.00	12.00	120.00	Open	2084.04	2226.67	2226.35	0.32	11.45	
P-1011	660.00	8.00	120.00	Open	85.60	2269.52	2269.37	0.15	0.22	
P-1012	138.00	12.00	120.00	Open	10.00	2271.37	2271.37	0.00	0.00	
P-1013	278.00	8.00	120.00	Open	0.00	2271.37	2271.37	0.00	0.00	
P-1014	405.00	8.00	120.00	Open	10.00	2271.37	2271.37	0.00	0.00	
P-1015	464.00	8.00	120.00	Open	5.00	2271.37	2271.37	0.00	0.00	
P-1016	230.00	12.00	100.00	Open	249.12	2270.29	2270.21	0.07	0.31	
P-1017	128.00	12.00	100.00	Open	308.29	2270.21	2270.15	0.06	0.47	
P-1018	84.00	8.00	120.00	Open	1.66	2270.25	2270.25	0.00	0.00	
P-1019	249.00	8.00	120.00	Open	-61.67	2270.25	2270.28	0.03	0.12	
P-1020	1115.00	12.00	120.00	Open	14.39	2267.14	2267.14	0.00	0.00	
P-1021	271.00	8.00	120.00	Open	-61.25	2270.21	2270.25	0.03	0.12	
P-1039	151.00	8.00	120.00	Open	0.00	2267.05	2267.05	0.00	0.00	
P-1040	258.00	8.00	120.00	Open	-31.00	2267.05	2267.06	0.01	0.03	
P-1041	176.00	8.00	120.00	Open	21.00	2267.05	2267.05	0.00	0.02	
P-1042	41.00	8.00	120.00	Open	11.00	2267.05	2267.05	0.00	0.01	
P-1043	226.00	8.00	120.00	Open	10.00	2267.05	2267.05	0.00	0.00	
P-1046	52.00	16.00	120.00	Open	1592.90	2297.62	2297.53	0.09	1.71	
P-1047	511.00	16.00	120.00	Open	1587.90	2297.53	2296.66	0.87	1.70	
P-1048	364.00	8.00	120.00	Open	5.00	2297.53	2297.53	0.00	0.00	
P-1050	328.00	6.00	120.00	Open	32.48	2268.44	2268.39	0.05	0.15	
P-1052	28.00	6.00	120.00	Open	32.48	2268.39	2268.39	0.00	0.15	
P-1054	341.00	8.00	120.00	Open	0.00	2268.39	2268.39	0.00	0.00	
P-1600	235.00	12.00	120.00	Open	506.13	2273.37	2273.17	0.20	0.83	
P-1610	24.00	12.00	120.00	Open	243.94	2273.17	2273.17	0.01	0.22	
P-1620	21.00	12.00	120.00	Open	262.18	2273.17	2273.17	0.01	0.26	
P-1630	643.00	12.00	120.00	Open	506.13	2273.17	2272.63	0.54	0.83	
P-1640	501.00	12.00	120.00	Open	500.55	2272.63	2272.22	0.41	0.82	
P-1650	603.00	12.00	120.00	Open	419.89	2272.22	2271.87	0.36	0.59	
P-1660	554.00	12.00	120.00	Open	409.33	2271.87	2271.55	0.31	0.56	
P-1670	41.00	12.00	120.00	Open	263.30	2271.55	2271.54	0.01	0.24	
P-1680	378.00	12.00	120.00	Open	286.57	2271.54	2271.43	0.11	0.29	
P-1690	871.00	12.00	120.00	Open	288.52	2271.43	2271.18	0.26	0.29	
P-1700	22.00	12.00	120.00	Open	288.52	2271.18	2271.17	0.01	0.30	
P-1710	717.00	12.00	120.00	Open	408.63	2271.17	2270.77	0.40	0.56	
P-1720	347.00	12.00	120.00	Open	335.50	2270.77	2270.63	0.13	0.39	
P-1730	37.00	12.00	120.00	Open	422.68	2270.63	2270.61	0.02	0.60	
P-1750	12.00	12.00	120.00	Open	254.45	2270.12	2270.12	0.00	0.22	
P-1770	28.00	12.00	120.00	Open	161.03	2270.12	2270.12	0.00	0.10	
P-1780	79.00	12.00	120.00	Open	415.49	2270.12	2270.07	0.05	0.58	
P-1790	138.00	12.00	120.00	Open	398.17	2270.07	2270.00	0.07	0.53	
P-1800	69.00	12.00	120.00	Open	385.13	2270.00	2269.96	0.03	0.50	
P-1810	304.00	12.00	120.00	Open	448.74	2269.96	2269.76	0.20	0.67	
P-1820	116.00	12.00	120.00	Open	508.94	2269.76	2269.66	0.10	0.84	
P-1830	240.00	12.00	120.00	Open	504.04	2269.66	2269.47	0.20	0.83	
P-1840	375.00	12.00	120.00	Open	501.68	2269.47	2269.16	0.31	0.82	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-1850	27.00	12.00	100.00	Open	84.49	2269.11	2269.11	0.00	0.05	
P-1870	266.00	12.00	120.00	Open	223.69	2268.98	2268.93	0.05	0.18	
P-1880	520.00	12.00	120.00	Open	137.94	2268.93	2268.89	0.04	0.07	
P-1890	65.00	12.00	120.00	Open	19.06	2268.89	2268.89	0.00	0.00	
P-1900	86.00	12.00	120.00	Open	15.00	2268.89	2268.89	0.00	0.00	
P-1910	213.00	12.00	120.00	Open	14.81	2268.89	2268.89	0.00	0.00	
P-1920	153.00	12.00	120.00	Open	47.48	2268.89	2268.89	0.00	0.01	
P-1930	284.00	12.00	120.00	Open	-80.77	2268.89	2268.90	0.01	0.03	
P-1940	108.00	12.00	120.00	Open	-119.25	2268.90	2268.91	0.01	0.06	
P-1950	115.00	12.00	120.00	Open	-123.27	2268.91	2268.91	0.01	0.06	
P-1960	205.00	12.00	120.00	Open	-129.18	2268.91	2268.93	0.01	0.07	
P-1970	153.00	12.00	120.00	Open	-129.57	2268.93	2268.94	0.01	0.07	
P-1980	371.00	12.00	120.00	Open	-97.88	2268.94	2268.95	0.01	0.04	
P-2000	151.00	12.00	120.00	Open	-336.60	2269.12	2269.18	0.06	0.39	
P-2190	558.00	12.00	120.00	Open	128.59	2271.44	2271.41	0.04	0.07	
P-2200	814.00	12.00	120.00	Open	62.22	2271.41	2271.39	0.01	0.02	
P-2210	1145.00	12.00	120.00	Open	62.02	2271.39	2271.37	0.02	0.02	
P-2220	482.00	12.00	120.00	Open	13.99	2271.37	2271.37	0.00	0.00	
P-2225	542.00	12.00	120.00	Open	13.99	2271.37	2271.37	0.00	0.00	
P-2230	309.00	12.00	120.00	Open	10.39	2271.37	2271.37	0.00	0.00	
P-2240	34.00	12.00	120.00	Open	10.00	2271.37	2271.37	0.00	0.00	
P-2250	440.00	12.00	100.00	Open	405.79	2269.11	2268.77	0.34	0.78	
P-2260	59.00	12.00	120.00	Open	-501.68	2269.11	2269.16	0.05	0.82	
P-2270	184.00	12.00	120.00	Open	296.12	2268.45	2268.39	0.06	0.31	
P-2280	463.00	12.00	120.00	Open	294.58	2268.39	2268.25	0.14	0.31	
P-2290	359.00	12.00	120.00	Open	340.33	2268.25	2268.11	0.14	0.40	
P-2300	157.00	12.00	120.00	Open	173.02	2268.11	2268.09	0.02	0.12	
P-2310	542.00	12.00	120.00	Open	278.28	2268.09	2267.94	0.15	0.27	
P-2320	708.00	12.00	120.00	Open	329.52	2267.94	2267.67	0.27	0.38	
P-2330	1209.00	12.00	120.00	Open	328.94	2267.67	2267.22	0.45	0.37	
P-2340	344.00	12.00	120.00	Open	371.22	2267.22	2267.06	0.16	0.47	
P-2350	2312.00	12.00	120.00	Open	335.27	2267.06	2266.16	0.90	0.39	
P-2360	443.00	12.00	120.00	Open	282.59	2265.45	2265.33	0.13	0.28	
P-2370	1155.00	12.00	120.00	Open	210.39	2265.33	2265.14	0.19	0.16	
P-2380	951.00	12.00	120.00	Open	293.44	2265.14	2264.85	0.29	0.30	
P-2390	333.00	12.00	120.00	Open	293.44	2264.85	2264.75	0.10	0.30	
P-2400	223.00	12.00	120.00	Open	258.08	2264.75	2264.69	0.05	0.24	
P-2410	388.00	12.00	120.00	Open	258.08	2264.69	2264.60	0.09	0.24	
P-2420	98.00	12.00	120.00	Open	258.08	2264.60	2264.58	0.02	0.24	
P-2430	392.00	12.00	120.00	Open	134.76	2264.58	2264.55	0.03	0.07	
P-2440	608.00	12.00	120.00	Open	132.01	2264.55	2264.51	0.04	0.07	
P-2460	195.00	12.00	120.00	Open	0.00	2264.44	2264.44	0.00	0.00	
P-2470	1250.00	12.00	120.00	Open	14.01	2302.18	2302.18	0.00	0.00	
P-2480	566.00	12.00	120.00	Open	0.00	2302.18	2302.18	0.00	0.00	
P-2500	687.00	12.00	120.00	Open	-1.80	2302.18	2302.18	0.00	0.00	
P-2510	311.00	12.00	120.00	Open	209.86	2279.54	2279.49	0.05	0.16	
P-2520	389.00	12.00	120.00	Open	131.12	2273.53	2273.50	0.03	0.07	
P-2530	958.00	12.00	120.00	Open	133.43	2273.59	2273.53	0.07	0.07	
P-2540	805.00	12.00	120.00	Open	172.36	2273.68	2273.59	0.09	0.11	
P-2550	89.00	12.00	120.00	Open	-0.19	2273.68	2273.68	0.00	0.00	
P-2560	36.00	12.00	120.00	Open	0.00	2276.73	2276.73	0.00	0.00	
P-2570	422.00	12.00	120.00	Open	-49.14	2276.73	2276.73	0.00	0.01	
P-2580	137.00	12.00	120.00	Open	-24.79	2276.73	2276.73	0.00	0.00	
P-2590	426.00	12.00	120.00	Open	-25.75	2276.73	2276.73	0.00	0.00	
P-2600	50.00	12.00	120.00	Open	0.00	2276.73	2276.73	0.00	0.00	
P-2610	45.00	12.00	100.00	Open	0.00	2273.69	2273.69	0.00	0.00	
P-2630	230.00	12.00	120.00	Open	405.79	2268.77	2268.64	0.13	0.55	
P-2635	661.00	12.00	120.00	Open	287.75	2268.64	2268.45	0.19	0.29	
P-2650	1959.00	12.00	120.00	Open	-322.76	2265.45	2266.16	0.71	0.36	
P-2720	611.00	12.00	100.00	Open	401.55	2273.59	2273.13	0.46	0.76	
P-2730	634.00	12.00	100.00	Open	400.79	2273.13	2272.65	0.48	0.76	
P-2750	1172.00	12.00	100.00	Open	399.25	2272.65	2271.77	0.88	0.75	
P-2760	1257.00	12.00	100.00	Open	328.66	2271.77	2271.11	0.66	0.52	
P-2780	338.00	12.00	100.00	Open	285.77	2270.42	2270.29	0.14	0.41	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-2800	325.00	12.00	100.00	Open	320.87	2270.15	2269.99	0.16	0.50	
P-2810	200.00	12.00	100.00	Open	310.88	2269.99	2269.90	0.09	0.47	
P-2820	35.00	12.00	100.00	Open	310.88	2269.90	2269.88	0.02	0.47	
P-2840	143.00	12.00	100.00	Open	330.03	2269.55	2269.48	0.08	0.53	
P-2860	1016.00	12.00	100.00	Open	216.10	2269.48	2269.23	0.25	0.24	
P-2880	344.00	12.00	100.00	Open	155.62	2269.23	2269.19	0.05	0.13	
P-2885	699.00	12.00	100.00	Open	-100.56	2269.15	2269.19	0.04	0.06	
P-2890	383.00	12.00	100.00	Open	130.36	2269.15	2269.11	0.04	0.09	
P-3040	1647.00	12.00	120.00	Open	-106.46	2269.16	2269.23	0.08	0.05	
P-3050	1289.00	12.00	120.00	Open	-81.58	2269.12	2269.16	0.04	0.03	
P-3060	21.00	12.00	120.00	Open	-114.35	2269.12	2269.12	0.00	0.06	
P-3070	156.00	12.00	120.00	Open	-83.05	2265.14	2265.14	0.00	0.03	
P-3080	281.00	12.00	120.00	Open	-82.35	2265.14	2265.15	0.01	0.03	
P-3090	294.00	12.00	120.00	Open	-83.55	2265.15	2265.16	0.01	0.03	
P-3100	42.00	12.00	120.00	Open	-84.10	2265.16	2265.16	0.00	0.03	
P-3110	50.00	12.00	120.00	Open	-39.49	2265.16	2265.16	0.00	0.00	
P-3120	439.00	12.00	120.00	Open	-39.68	2265.16	2265.16	0.00	0.01	
P-3130	322.00	12.00	120.00	Open	-51.50	2265.16	2265.17	0.00	0.01	
P-3140	167.00	12.00	120.00	Open	-64.57	2265.17	2265.17	0.00	0.02	
P-3150	573.00	12.00	120.00	Open	296.33	2265.17	2264.99	0.18	0.31	
P-3160	2351.00	12.00	120.00	Open	360.91	2266.22	2265.17	1.05	0.45	
P-3200	299.00	12.00	120.00	Open	123.32	2264.58	2264.56	0.02	0.06	
P-3210	317.00	12.00	120.00	Open	131.87	2264.56	2264.54	0.02	0.07	
P-3220	144.00	12.00	120.00	Open	108.97	2264.54	2264.53	0.01	0.05	
P-3230	950.00	12.00	120.00	Open	82.66	2264.53	2264.50	0.03	0.03	
P-3240	64.00	12.00	120.00	Open	25.43	2264.50	2264.50	0.00	0.00	
P-3250	31.00	12.00	120.00	Open	167.32	2268.11	2268.10	0.00	0.11	
P-3260	114.00	12.00	120.00	Open	20.79	2268.10	2268.10	0.00	0.00	
P-3270	34.00	12.00	120.00	Open	-105.26	2268.09	2268.09	0.00	0.05	
P-3280	88.00	12.00	120.00	Open	0.19	2268.09	2268.09	0.00	0.00	
P-3290	149.00	12.00	120.00	Open	146.53	2268.10	2268.09	0.01	0.08	
P-3300	12.00	12.00	120.00	Open	105.45	2268.09	2268.09	0.00	0.04	
P-3310	507.00	12.00	120.00	Open	41.08	2268.09	2268.09	0.00	0.01	
P-3320	590.00	12.00	120.00	Open	106.98	2268.09	2268.06	0.03	0.05	
P-3330	327.00	12.00	120.00	Open	57.43	2268.06	2268.05	0.00	0.01	
P-3340	297.00	12.00	120.00	Open	37.05	2268.05	2268.05	0.00	0.01	
P-3350	259.00	12.00	120.00	Open	100.29	2268.05	2268.04	0.01	0.04	
P-3360	544.00	12.00	120.00	Open	97.73	2268.04	2268.02	0.02	0.04	
P-3370	141.00	12.00	120.00	Open	41.43	2268.48	2268.48	0.00	0.01	
P-3380	352.00	12.00	120.00	Open	87.02	2268.02	2268.01	0.01	0.03	
P-3390	16.00	12.00	120.00	Open	96.39	2268.01	2268.01	0.00	0.05	
P-3400	1048.00	12.00	120.00	Open	-102.93	2267.96	2268.01	0.05	0.04	
P-3410	333.00	12.00	120.00	Open	-184.37	2267.92	2267.96	0.04	0.13	
P-3420	187.00	12.00	120.00	Open	-169.83	2267.90	2267.92	0.02	0.11	
P-3430	982.00	12.00	120.00	Open	-135.74	2267.72	2267.80	0.07	0.07	
P-3450	706.00	12.00	120.00	Open	344.70	2268.95	2268.66	0.29	0.41	
P-3460	384.00	12.00	120.00	Open	377.33	2268.66	2268.48	0.19	0.48	
P-3470	35.00	12.00	120.00	Open	335.12	2268.48	2268.46	0.01	0.39	
P-3480	311.00	12.00	120.00	Open	333.77	2268.46	2268.34	0.12	0.39	
P-3490	412.00	12.00	120.00	Open	329.26	2268.34	2268.19	0.15	0.38	
P-3500	793.00	12.00	120.00	Open	252.07	2268.19	2268.01	0.18	0.23	
P-3510	23.00	12.00	120.00	Open	102.93	2268.01	2268.01	0.00	0.04	
P-3520	18.00	12.00	120.00	Open	332.35	2268.01	2268.00	0.01	0.38	
P-3530	1072.00	12.00	120.00	Open	271.67	2268.00	2267.72	0.28	0.26	
P-3540	1430.00	12.00	120.00	Open	254.59	2267.72	2267.39	0.33	0.23	
P-3550	460.00	12.00	120.00	Open	246.99	2267.39	2267.28	0.10	0.22	
P-3560	510.00	12.00	120.00	Open	42.39	2267.22	2267.22	0.00	0.01	
P-3570	335.00	12.00	120.00	Open	73.60	2267.23	2267.22	0.01	0.02	
P-3580	227.00	12.00	120.00	Open	63.84	2267.24	2267.23	0.00	0.02	
P-3590	405.00	12.00	120.00	Open	79.83	2267.25	2267.24	0.01	0.03	
P-3600	647.00	12.00	120.00	Open	119.08	2267.28	2267.25	0.04	0.06	
P-3620	856.00	12.00	120.00	Open	-69.13	2267.14	2267.16	0.02	0.02	
P-3630	552.00	12.00	120.00	Open	-26.93	2267.14	2267.14	0.00	0.00	
P-3640	391.00	12.00	120.00	Open	-14.98	2267.14	2267.14	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream			Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)	Headloss (ft)	
P-3650	593.00	12.00	120.00	Open	-3.83	2267.14	2267.14	0.00	0.00	0.00
P-3660	176.00	12.00	120.00	Open	9.12	2267.14	2267.14	0.00	0.00	0.00
P-3680	1855.00	12.00	120.00	Open	-16.89	2267.14	2267.14	0.00	0.00	0.00
P-3690	46.00	12.00	120.00	Open	0.00	2267.14	2267.14	0.00	0.00	0.00
P-3700	2332.00	12.00	120.00	Open	19.39	2267.15	2267.15	0.00	0.00	0.00
P-3705	975.00	12.00	120.00	Open	19.39	2267.15	2267.14	0.00	0.00	0.00
P-3710	2842.00	12.00	120.00	Open	26.75	2267.16	2267.15	0.01	0.00	0.00
P-4060	260.00	10.00	120.00	Open	239.60	2269.72	2269.59	0.13	0.51	
P-4070	576.00	10.00	120.00	Open	384.23	2269.59	2268.89	0.70	1.22	
P-4080	1321.00	10.00	120.00	Open	81.43	2268.05	2267.96	0.09	0.07	
P-4090	226.00	10.00	120.00	Open	203.53	2268.14	2268.05	0.08	0.37	
P-4100	86.00	10.00	120.00	Open	143.49	2268.15	2268.14	0.02	0.20	
P-4110	528.00	10.00	120.00	Open	144.70	2268.26	2268.15	0.11	0.20	
P-4120	302.00	10.00	120.00	Open	39.62	2268.26	2268.26	0.01	0.02	
P-4130	381.00	10.00	120.00	Open	110.39	2268.31	2268.26	0.05	0.12	
P-4135	17.00	10.00	120.00	Open	-24.29	2268.31	2268.31	0.00	0.00	
P-4140	335.00	10.00	120.00	Open	20.98	2268.31	2268.31	0.00	0.01	
P-4150	308.00	10.00	120.00	Open	24.62	2268.31	2268.31	0.00	0.01	
P-4160	244.00	10.00	120.00	Open	33.13	2268.32	2268.31	0.00	0.01	
P-4170	46.00	10.00	120.00	Open	0.00	2268.32	2268.32	0.00	0.00	
P-4190	289.00	10.00	120.00	Open	44.40	2267.75	2267.75	0.01	0.02	
P-4200	2339.00	10.00	30.00	Open	110.60	2271.44	2267.75	3.69	1.58	
P-4230	483.00	10.00	120.00	Open	-65.99	2271.39	2271.41	0.02	0.05	
P-4240	1363.00	10.00	120.00	Open	-41.10	2271.36	2271.39	0.03	0.02	
P-4250	991.00	10.00	120.00	Open	-32.31	2271.35	2271.36	0.01	0.01	
P-4255	841.00	10.00	120.00	Open	-32.31	2271.34	2271.35	0.01	0.01	
P-4260	888.00	10.00	120.00	Open	-11.00	2271.33	2271.34	0.00	0.00	
P-4270	92.00	10.00	120.00	Open	0.00	2271.33	2271.33	0.00	0.00	
P-4280	92.00	10.00	120.00	Open	-56.42	2267.48	2267.48	0.00	0.03	
P-4290	2162.00	10.00	120.00	Open	63.37	2267.48	2267.39	0.09	0.04	
P-4295	963.00	10.00	120.00	Open	42.56	2267.29	2267.27	0.02	0.02	
P-4300	490.00	10.00	120.00	Open	52.34	2267.34	2267.33	0.01	0.03	
P-4310	883.00	10.00	120.00	Open	60.48	2267.33	2267.29	0.03	0.04	
P-4320	3823.00	10.00	120.00	Open	42.56	2267.27	2267.19	0.08	0.02	
P-4325	988.00	10.00	120.00	Open	63.37	2267.39	2267.34	0.04	0.04	
P-4330	22.00	10.00	120.00	Open	0.00	2264.85	2264.85	0.00	0.00	
P-4340	28.00	10.00	120.00	Open	0.00	2264.55	2264.55	0.00	0.00	
P-4350	271.00	8.00	120.00	Open	10.79	2317.84	2317.84	0.00	0.01	
P-4360	74.00	8.00	120.00	Open	6.92	2317.84	2317.84	0.00	0.00	
P-4370	598.00	8.00	120.00	Open	1.58	2302.18	2302.18	0.00	0.00	
P-4380	40.00	8.00	120.00	Open	243.39	2302.18	2302.12	0.06	1.54	
P-4390	210.00	8.00	120.00	Open	0.74	2298.15	2298.15	0.00	0.00	
P-4400	196.00	8.00	120.00	Open	-0.81	2298.15	2298.15	0.00	0.00	
P-4410	75.00	8.00	120.00	Open	0.00	2298.15	2298.15	0.00	0.00	
P-4420	146.00	8.00	120.00	Open	-78.16	2298.15	2298.18	0.03	0.19	
P-4430	18.00	8.00	120.00	Open	-247.65	2298.15	2298.18	0.03	1.60	
P-4440	64.00	8.00	120.00	Open	-325.80	2298.18	2298.35	0.17	2.65	
P-4450	227.00	8.00	120.00	Open	-327.42	2298.35	2298.96	0.61	2.68	
P-4470	30.00	8.00	120.00	Open	0.00	2298.12	2298.12	0.00	0.00	
P-4480	46.00	8.00	120.00	Open	0.00	2296.60	2296.60	0.00	0.00	
P-4490	944.00	8.00	120.00	Open	384.08	2290.68	2287.29	3.40	3.60	
P-4500	189.00	8.00	120.00	Open	2.16	2287.29	2287.29	0.00	0.00	
P-4510	339.00	8.00	120.00	Open	0.89	2287.29	2287.29	0.00	0.00	
P-4520	432.00	8.00	120.00	Open	0.03	2284.19	2284.19	0.00	0.00	
P-4530	164.00	8.00	120.00	Open	28.21	2277.01	2277.01	0.00	0.03	
P-4540	238.00	8.00	120.00	Open	28.21	2277.01	2277.00	0.01	0.03	
P-4560	163.00	8.00	120.00	Open	8.49	2298.00	2298.00	0.00	0.00	
P-4570	152.00	8.00	120.00	Open	-191.07	2292.06	2292.22	0.15	0.99	
P-4590	437.00	8.00	120.00	Open	-124.66	2293.83	2294.03	0.20	0.45	
P-4600	481.00	8.00	120.00	Open	-124.66	2294.03	2294.25	0.22	0.45	
P-4610	350.00	8.00	120.00	Open	-126.02	2294.25	2294.41	0.16	0.46	
P-4620	203.00	8.00	120.00	Open	-349.41	2294.41	2295.02	0.61	3.02	
P-4630	523.00	8.00	120.00	Open	-349.41	2295.02	2296.60	1.58	3.02	
P-4650	76.00	8.00	120.00	Open	-349.41	2296.60	2296.83	0.23	3.02	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-4670	462.00	8.00	120.00	Open	167.42	2297.89	2297.53	0.36	0.77	
P-4675	136.00	8.00	120.00	Open	167.80	2298.00	2297.89	0.11	0.78	
P-4690	1051.00	8.00	120.00	Open	-27.04	2304.95	2304.98	0.03	0.03	
P-4695	639.00	8.00	120.00	Open	-26.46	2304.94	2304.95	0.02	0.03	
P-4700	1021.00	8.00	120.00	Open	304.80	2307.38	2304.98	2.40	2.35	
P-4710	562.00	8.00	120.00	Open	1.35	2307.38	2307.38	0.00	0.00	
P-4720	445.00	8.00	120.00	Open	306.72	2308.43	2307.38	1.06	2.37	
P-4730	402.00	8.00	120.00	Open	0.97	2308.43	2308.43	0.00	0.00	
P-4740	524.00	8.00	120.00	Open	307.69	2309.68	2308.43	1.25	2.39	
P-4750	1136.00	8.00	120.00	Open	310.76	2312.45	2309.68	2.76	2.43	
P-4760	353.00	8.00	120.00	Open	144.47	2312.65	2312.45	0.21	0.59	
P-4780	376.00	8.00	120.00	Open	-27.75	2276.86	2276.87	0.01	0.03	
P-4790	369.00	8.00	120.00	Open	-20.19	2276.86	2276.86	0.01	0.02	
P-4800	784.00	8.00	120.00	Open	-25.25	2276.84	2276.86	0.02	0.02	
P-4820	225.00	8.00	120.00	Open	25.14	2276.85	2276.84	0.01	0.02	
P-4830	157.00	8.00	120.00	Open	0.00	2276.84	2276.84	0.00	0.00	
P-4840	111.00	8.00	120.00	Open	55.95	2276.86	2276.85	0.01	0.10	
P-4850	352.00	8.00	120.00	Open	30.81	2276.85	2276.84	0.01	0.03	
P-4870	77.00	8.00	120.00	Open	0.00	2281.07	2281.07	0.00	0.00	
P-4880	39.00	8.00	120.00	Open	-291.37	2279.40	2279.48	0.08	2.16	
P-4890	894.00	8.00	120.00	Open	-291.37	2277.47	2279.40	1.93	2.16	
P-4900	556.00	8.00	120.00	Open	-105.61	2276.76	2276.95	0.18	0.33	
P-4910	445.00	8.00	120.00	Open	-29.20	2276.75	2276.76	0.01	0.03	
P-4920	146.00	8.00	120.00	Open	-26.52	2276.75	2276.75	0.00	0.03	
P-4930	701.00	8.00	120.00	Open	-25.75	2276.73	2276.75	0.02	0.02	
P-4940	1221.00	8.00	120.00	Open	46.83	2276.73	2276.64	0.09	0.07	
P-4950	74.00	8.00	120.00	Open	-179.22	2275.06	2275.13	0.06	0.88	
P-4960	891.00	8.00	120.00	Open	-177.93	2274.29	2275.06	0.77	0.87	
P-4970	724.00	8.00	120.00	Open	-174.66	2273.68	2274.29	0.61	0.84	
P-4990a	484.00	8.00	120.00	Open	48.81	2267.24	2267.20	0.04	0.08	
P-4990b	226.00	8.00	120.00	Open	48.81	2267.20	2267.19	0.02	0.08	
P-4995	884.00	8.00	120.00	Open	578.29	2273.98	2267.19	6.79	7.68	
P-5000	398.00	8.00	120.00	Open	838.31	2273.32	2267.24	6.08	15.28	
P-5005	42.00	8.00	120.00	Open	13.39	2270.63	2270.63	0.00	0.01	
P-5010	562.00	8.00	120.00	Open	5.88	2273.46	2273.46	0.00	0.00	
P-5020	477.00	8.00	120.00	Open	2.31	2273.53	2273.52	0.00	0.00	
P-5030	596.00	8.00	120.00	Open	0.57	2273.52	2273.52	0.00	0.00	
P-5040	1203.00	8.00	120.00	Open	-0.39	2273.52	2273.52	0.00	0.00	
P-5050	174.00	8.00	120.00	Open	-37.59	2273.58	2273.59	0.01	0.05	
P-5060	1283.00	8.00	120.00	Open	36.43	2273.58	2273.53	0.06	0.05	
P-5170	159.00	8.00	120.00	Open	54.74	2263.77	2263.75	0.02	0.10	
P-5260	173.00	8.00	120.00	Open	606.44	2260.69	2259.24	1.45	8.39	
P-5270	616.00	8.00	120.00	Open	607.02	2265.87	2260.69	5.18	8.40	
P-5280	483.00	8.00	120.00	Open	-160.47	2272.68	2273.02	0.35	0.72	
P-5300	472.00	8.00	120.00	Open	-81.55	2273.23	2273.33	0.10	0.20	
P-5305	475.00	8.00	120.00	Open	66.44	2273.39	2273.33	0.07	0.14	
P-5310	535.00	8.00	120.00	Open	153.92	2269.88	2269.53	0.35	0.66	
P-5320	924.00	8.00	120.00	Open	155.07	2270.50	2269.88	0.62	0.67	
P-5330	172.00	8.00	120.00	Open	0.00	2273.23	2273.23	0.00	0.00	
P-5340	371.00	8.00	120.00	Open	0.00	2272.63	2272.63	0.00	0.00	
P-5350	167.00	8.00	120.00	Open	57.40	2273.38	2273.36	0.02	0.11	
P-5360	90.00	8.00	120.00	Open	-109.75	2273.33	2273.36	0.03	0.35	
P-5370	380.00	8.00	120.00	Open	-52.73	2273.36	2273.39	0.03	0.09	
P-5380	1372.00	8.00	120.00	Open	0.00	2273.39	2273.39	0.00	0.00	
P-5390	1052.00	8.00	120.00	Open	54.50	2273.49	2273.39	0.10	0.10	
P-5400	559.00	8.00	90.00	Open	-56.23	2273.49	2273.59	0.10	0.17	
P-5420	392.00	8.00	120.00	Open	76.62	2272.08	2272.01	0.07	0.18	
P-5430	748.00	8.00	120.00	Open	-78.73	2272.08	2272.22	0.14	0.19	
P-5450	19.00	8.00	90.00	Open	-74.51	2272.00	2272.01	0.01	0.30	
P-5500	505.00	8.00	90.00	Open	-71.62	2271.86	2272.00	0.14	0.27	
P-5510	836.00	8.00	120.00	Open	-6.69	2271.86	2271.86	0.00	0.00	
P-5520	503.00	8.00	120.00	Open	0.99	2271.86	2271.86	0.00	0.00	
P-5530	332.00	8.00	120.00	Open	-8.83	2271.86	2271.87	0.00	0.00	
P-5540	244.00	8.00	90.00	Open	-76.44	2271.79	2271.86	0.08	0.31	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-5550	426.00	8.00	90.00	Open	-73.19	2271.67	2271.79	0.12	0.28	
P-5560	514.00	8.00	120.00	Open	69.44	2271.74	2271.67	0.08	0.15	
P-5570	153.00	8.00	120.00	Open	70.59	2271.77	2271.74	0.02	0.15	
P-5580	364.00	8.00	90.00	Open	-112.25	2271.44	2271.67	0.23	0.63	
P-5590	18.00	8.00	120.00	Open	-103.51	2271.43	2271.44	0.01	0.31	
P-5600	190.00	8.00	90.00	Open	-100.96	2271.33	2271.43	0.10	0.52	
P-5620	325.00	8.00	120.00	Open	13.48	2271.11	2271.11	0.00	0.01	
P-5630	730.00	8.00	120.00	Open	-207.31	2272.13	2272.97	0.84	1.15	
P-5640	465.00	8.00	120.00	Open	352.78	2276.19	2274.76	1.43	3.08	
P-5645	582.00	8.00	120.00	Open	-352.39	2272.97	2274.76	1.79	3.07	
P-5650	179.00	8.00	120.00	Open	46.24	2263.75	2263.74	0.01	0.07	
P-5660	126.00	8.00	120.00	Open	0.00	2276.19	2276.19	0.00	0.00	
P-5670	15.00	8.00	120.00	Open	352.78	2276.24	2276.19	0.05	3.08	
P-5680	35.00	8.00	120.00	Open	0.00	2276.24	2276.24	0.00	0.00	
P-5690	84.00	8.00	120.00	Open	353.74	2276.50	2276.24	0.26	3.09	
P-5700	179.00	8.00	120.00	Open	354.70	2277.05	2276.50	0.56	3.11	
P-5710	884.00	8.00	120.00	Open	0.95	2276.50	2276.50	0.00	0.00	
P-5720	375.00	8.00	120.00	Open	144.13	2272.97	2272.75	0.22	0.59	
P-5730	47.00	8.00	120.00	Open	-0.39	2272.75	2272.75	0.00	0.00	
P-5740	571.00	8.00	120.00	Open	142.78	2272.75	2272.42	0.33	0.58	
P-5750	1054.00	8.00	120.00	Open	-95.36	2272.14	2272.42	0.29	0.27	
P-5760	51.00	8.00	120.00	Open	-210.23	2275.68	2275.74	0.06	1.18	
P-5770	386.00	8.00	120.00	Open	33.49	2263.74	2263.73	0.02	0.04	
P-5780	447.00	8.00	120.00	Open	45.31	2272.42	2272.39	0.03	0.07	
P-5790	185.00	8.00	120.00	Open	145.84	2271.55	2271.44	0.11	0.60	
P-5800	184.00	8.00	120.00	Open	59.94	2271.44	2271.42	0.02	0.12	
P-5810	21.00	8.00	120.00	Open	30.25	2271.42	2271.42	0.00	0.02	
P-5820	593.00	8.00	120.00	Open	67.14	2271.42	2271.34	0.08	0.14	
P-5830	153.00	8.00	120.00	Open	113.93	2271.34	2271.28	0.06	0.38	
P-5840	215.00	8.00	120.00	Open	112.20	2271.28	2271.20	0.08	0.37	
P-5845	874.00	8.00	120.00	Open	110.66	2271.20	2270.89	0.31	0.36	
P-5850	256.00	8.00	120.00	Open	57.23	2264.50	2264.48	0.03	0.11	
P-5860	35.00	8.00	120.00	Open	1.16	2271.28	2271.28	0.00	0.00	
P-5870	249.00	8.00	120.00	Open	0.00	2271.28	2271.28	0.00	0.00	
P-5880	400.00	8.00	120.00	Open	37.85	2271.44	2271.42	0.02	0.05	
P-5890	622.00	8.00	120.00	Open	-36.69	2271.44	2271.47	0.03	0.05	
P-5900	868.00	8.00	120.00	Open	-28.15	2271.40	2271.42	0.02	0.03	
P-5910	449.00	8.00	120.00	Open	-34.95	2271.42	2271.44	0.02	0.04	
P-5920	432.00	8.00	120.00	Open	-33.08	2271.41	2271.42	0.02	0.04	
P-5930	414.00	8.00	120.00	Open	22.94	2271.41	2271.40	0.01	0.02	
P-5940	431.00	8.00	120.00	Open	-8.98	2271.40	2271.41	0.00	0.00	
P-5950	390.00	8.00	120.00	Open	-0.52	2271.40	2271.40	0.00	0.00	
P-5960	431.00	8.00	120.00	Open	-48.79	2271.36	2271.40	0.03	0.08	
P-5970	21.00	8.00	120.00	Open	-55.58	2271.36	2271.36	0.00	0.10	
P-5980	368.00	8.00	120.00	Open	134.48	2271.36	2271.17	0.19	0.52	
P-5990	426.00	8.00	120.00	Open	78.89	2271.44	2271.36	0.08	0.19	
P-6000	198.00	8.00	120.00	Open	79.66	2271.48	2271.44	0.04	0.20	
P-6010	292.00	8.00	120.00	Open	80.09	2271.54	2271.48	0.06	0.20	
P-6020	440.00	8.00	120.00	Open	82.73	2271.63	2271.54	0.09	0.21	
P-6030	18.00	8.00	120.00	Open	47.33	2271.63	2271.63	0.00	0.07	
P-6040	173.00	8.00	120.00	Open	287.22	2272.00	2271.63	0.36	2.10	
P-6050	79.00	8.00	120.00	Open	288.81	2272.16	2272.00	0.17	2.12	
P-6070	240.00	8.00	120.00	Open	294.12	2273.24	2272.71	0.53	2.20	
P-6080	333.00	8.00	120.00	Open	-236.73	2271.14	2271.63	0.49	1.47	
P-6090	163.00	8.00	120.00	Open	-235.60	2270.91	2271.14	0.24	1.46	
P-6100	902.00	8.00	120.00	Open	-100.57	2270.63	2270.91	0.27	0.30	
P-6110	476.00	8.00	120.00	Open	-132.15	2270.67	2270.91	0.24	0.50	
P-6120	1066.00	8.00	120.00	Open	-131.19	2270.14	2270.67	0.53	0.49	
P-6130	168.00	8.00	120.00	Open	-50.33	2270.13	2270.14	0.01	0.08	
P-6140	289.00	8.00	120.00	Open	50.69	2264.48	2264.45	0.02	0.08	
P-6150	131.00	8.00	120.00	Open	-44.01	2270.12	2270.13	0.01	0.07	
P-6160	149.00	8.00	120.00	Open	78.47	2270.14	2270.12	0.03	0.19	
P-6170	81.00	8.00	120.00	Open	78.28	2270.12	2270.10	0.02	0.19	
P-6180	41.00	8.00	120.00	Open	78.27	2270.10	2270.09	0.01	0.19	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-6190	74.00	8.00	120.00	Open	78.27	2270.09	2270.08	0.01	0.19	
P-6200	193.00	8.00	120.00	Open	0.00	2270.08	2270.08	0.00	0.00	
P-6210	176.00	8.00	120.00	Open	-67.80	2270.05	2270.08	0.03	0.15	
P-6220	30.00	8.00	120.00	Open	0.00	2270.10	2270.10	0.00	0.00	
P-6230	600.00	8.00	120.00	Open	-66.55	2274.52	2274.60	0.08	0.14	
P-6240	293.00	8.00	120.00	Open	3.39	2275.26	2275.26	0.00	0.00	
P-6250	351.00	8.00	120.00	Open	7.71	2271.44	2271.43	0.00	0.00	
P-6260	257.00	8.00	120.00	Open	33.36	2271.17	2271.16	0.01	0.04	
P-6270	171.00	8.00	120.00	Open	35.32	2271.18	2271.17	0.01	0.04	
P-6290	207.00	8.00	120.00	Open	-0.56	2271.17	2271.17	0.00	0.00	
P-6300	191.00	8.00	120.00	Open	-0.58	2271.17	2271.17	0.00	0.00	
P-6310	27.00	8.00	120.00	Open	0.00	2271.18	2271.18	0.00	0.00	
P-6440	719.00	8.00	90.00	Open	-88.49	2270.73	2271.02	0.29	0.40	
P-6450	609.00	8.00	120.00	Open	25.31	2270.73	2270.72	0.01	0.02	
P-6460	332.00	8.00	120.00	Open	-71.68	2270.72	2270.77	0.05	0.16	
P-6470	328.00	8.00	120.00	Open	96.22	2270.72	2270.63	0.09	0.28	
P-6480	332.00	8.00	120.00	Open	85.50	2270.63	2270.55	0.07	0.22	
P-6490	107.00	8.00	90.00	Open	-95.70	2270.68	2270.73	0.05	0.47	
P-6500	208.00	8.00	90.00	Open	-84.98	2270.60	2270.68	0.08	0.38	
P-6510	313.00	8.00	90.00	Open	-102.38	2270.44	2270.60	0.17	0.53	
P-6520	378.00	8.00	120.00	Open	10.14	2270.68	2270.68	0.00	0.00	
P-6530	236.00	8.00	120.00	Open	5.13	2270.68	2270.68	0.00	0.00	
P-6540	323.00	8.00	90.00	Open	-99.29	2270.27	2270.44	0.16	0.50	
P-6550	342.00	8.00	90.00	Open	-102.26	2270.08	2270.27	0.18	0.53	
P-6560	291.00	8.00	90.00	Open	14.34	2270.08	2270.08	0.00	0.01	
P-6570	136.00	8.00	90.00	Open	12.81	2270.08	2270.08	0.00	0.01	
P-6580	478.00	8.00	120.00	Open	-29.09	2270.08	2270.09	0.01	0.03	
P-6590	19.00	8.00	90.00	Open	-99.38	2270.27	2270.27	0.01	0.50	
P-6600	452.00	8.00	120.00	Open	-3.52	2270.27	2270.27	0.00	0.00	
P-6610	185.00	8.00	120.00	Open	-9.19	2270.27	2270.28	0.00	0.00	
P-6620	190.00	8.00	120.00	Open	-15.47	2270.28	2270.28	0.00	0.01	
P-6630	170.00	8.00	120.00	Open	15.21	2270.28	2270.28	0.00	0.01	
P-6640	548.00	8.00	120.00	Open	-85.48	2269.96	2270.08	0.12	0.22	
P-6650	659.00	8.00	120.00	Open	-28.41	2269.94	2269.96	0.02	0.03	
P-6660	807.00	8.00	120.00	Open	48.40	2269.96	2269.90	0.06	0.08	
P-6670	377.00	8.00	120.00	Open	40.07	2269.90	2269.88	0.02	0.05	
P-6680	100.00	8.00	120.00	Open	9.80	2269.99	2269.99	0.00	0.00	
P-6690	186.00	8.00	120.00	Open	6.06	2269.99	2269.99	0.00	0.00	
P-6700	82.00	8.00	120.00	Open	3.75	2269.99	2269.99	0.00	0.00	
P-6710	658.00	8.00	120.00	Open	-14.80	2270.42	2270.42	0.01	0.01	
P-6750	835.00	8.00	120.00	Open	-55.05	2269.10	2269.19	0.08	0.10	
P-6780	243.00	8.00	120.00	Open	-111.81	2269.39	2269.48	0.09	0.37	
P-6790	598.00	8.00	120.00	Open	-58.53	2269.32	2269.39	0.07	0.11	
P-6800	325.00	8.00	120.00	Open	-54.79	2269.29	2269.32	0.03	0.10	
P-6810	360.00	8.00	120.00	Open	-38.22	2269.27	2269.29	0.02	0.05	
P-6820	458.00	8.00	120.00	Open	-30.79	2269.26	2269.27	0.02	0.03	
P-6830	32.00	8.00	120.00	Open	-6.28	2269.27	2269.27	0.00	0.00	
P-6840	27.00	8.00	120.00	Open	-0.51	2269.27	2269.27	0.00	0.00	
P-6880	1192.00	8.00	120.00	Open	22.29	2264.45	2264.43	0.02	0.02	
P-7040	437.00	8.00	120.00	Open	19.41	2264.43	2264.42	0.01	0.01	
P-7090	450.00	8.00	120.00	Open	93.16	2269.72	2269.60	0.12	0.26	
P-7110	199.00	8.00	120.00	Open	27.96	2269.60	2269.59	0.01	0.03	
P-7120	157.00	8.00	120.00	Open	31.06	2269.60	2269.60	0.01	0.03	
P-7130	257.00	8.00	120.00	Open	24.42	2270.16	2270.15	0.01	0.02	
P-7140	371.00	8.00	120.00	Open	8.43	2270.15	2270.15	0.00	0.00	
P-7150	432.00	8.00	120.00	Open	6.56	2270.15	2270.15	0.00	0.00	
P-7160	38.00	8.00	120.00	Open	0.00	2270.15	2270.15	0.00	0.00	
P-7170	31.00	8.00	120.00	Open	0.45	2270.15	2270.15	0.00	0.00	
P-7180	194.00	8.00	120.00	Open	-24.31	2271.38	2271.39	0.00	0.02	
P-7190	1098.00	8.00	120.00	Open	-20.47	2271.36	2271.38	0.02	0.02	
P-7200	578.00	8.00	120.00	Open	-14.51	2271.36	2271.36	0.00	0.01	
P-7210	95.00	8.00	120.00	Open	-12.79	2271.36	2271.36	0.00	0.01	
P-7220	419.00	8.00	120.00	Open	-3.98	2271.36	2271.36	0.00	0.00	
P-7230	151.00	8.00	120.00	Open	-6.67	2271.36	2271.36	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-7240	451.00	8.00	120.00	Open	2.11	2271.33	2271.33	0.00	0.00	
P-7250	823.00	8.00	120.00	Open	13.09	2271.33	2271.33	0.01	0.01	
P-7260	155.00	8.00	120.00	Open	15.93	2271.34	2271.33	0.00	0.01	
P-7270	309.00	8.00	120.00	Open	4.80	2271.34	2271.34	0.00	0.00	
P-7280	766.00	8.00	120.00	Open	2.36	2271.34	2271.34	0.00	0.00	
P-7290	108.00	8.00	120.00	Open	0.00	2271.34	2271.34	0.00	0.00	
P-7300	303.00	8.00	120.00	Open	2.07	2271.33	2271.33	0.00	0.00	
P-7310	758.00	8.00	120.00	Open	-2.11	2271.33	2271.33	0.00	0.00	
P-7320	499.00	8.00	120.00	Open	-1.59	2271.33	2271.33	0.00	0.00	
P-7330	510.00	8.00	120.00	Open	-0.38	2271.33	2271.33	0.00	0.00	
P-7340	189.00	8.00	120.00	Open	-1.97	2271.33	2271.33	0.00	0.00	
P-7350	1151.00	8.00	120.00	Open	8.26	2271.33	2271.33	0.00	0.00	
P-7360	408.00	8.00	120.00	Open	3.25	2271.33	2271.33	0.00	0.00	
P-7370	138.00	8.00	120.00	Open	0.00	2271.33	2271.33	0.00	0.00	
P-7380	113.00	8.00	120.00	Open	-0.96	2271.36	2271.36	0.00	0.00	
P-7390	516.00	8.00	120.00	Open	48.04	2271.37	2271.33	0.04	0.08	
P-7400	522.00	8.00	120.00	Open	-19.10	2271.33	2271.33	0.01	0.01	
P-7410	51.00	8.00	120.00	Open	0.00	2271.33	2271.33	0.00	0.00	
P-7420	411.00	8.00	120.00	Open	27.01	2271.33	2271.32	0.01	0.03	
P-7430	965.00	8.00	120.00	Open	2.11	2271.37	2271.37	0.00	0.00	
P-7440	136.00	8.00	120.00	Open	0.39	2271.37	2271.37	0.00	0.00	
P-7490	767.00	8.00	120.00	Open	0.00	2267.75	2267.75	0.00	0.00	
P-7500	195.00	8.00	120.00	Open	0.00	2267.75	2267.75	0.00	0.00	
P-7510	500.00	8.00	120.00	Open	0.00	2267.75	2267.75	0.00	0.00	
P-7610	700.00	8.00	120.00	Open	151.96	2270.18	2269.73	0.45	0.65	
P-7620	229.00	8.00	120.00	Open	148.33	2269.73	2269.59	0.14	0.62	
P-7630	271.00	8.00	120.00	Open	3.38	2269.59	2269.59	0.00	0.00	
P-7640	294.00	8.00	120.00	Open	0.00	2269.73	2269.73	0.00	0.00	
P-7650	80.00	8.00	120.00	Open	0.00	2269.76	2269.76	0.00	0.00	
P-7660	757.00	8.00	120.00	Open	71.01	2268.89	2268.77	0.12	0.16	
P-7670	44.00	8.00	120.00	Open	56.67	2268.77	2268.76	0.00	0.11	
P-7680	130.00	8.00	120.00	Open	58.71	2268.76	2268.75	0.01	0.11	
P-7690	311.00	8.00	120.00	Open	3.07	2268.75	2268.75	0.00	0.00	
P-7700	217.00	8.00	120.00	Open	0.00	2268.75	2268.75	0.00	0.00	
P-7710	75.00	8.00	120.00	Open	0.00	2268.75	2268.75	0.00	0.00	
P-7720	924.00	8.00	120.00	Open	-2.04	2268.76	2268.76	0.00	0.00	
P-7730	955.00	8.00	120.00	Open	10.50	2268.77	2268.76	0.00	0.00	
P-7740	101.00	8.00	120.00	Open	0.00	2268.76	2268.76	0.00	0.00	
P-7750	660.00	8.00	120.00	Open	50.77	2268.75	2268.69	0.06	0.09	
P-7760	1011.00	8.00	120.00	Open	80.63	2268.89	2268.69	0.20	0.20	
P-7780	45.00	8.00	120.00	Open	0.00	2268.69	2268.69	0.00	0.00	
P-7790	106.00	8.00	120.00	Open	-45.91	2268.69	2268.69	0.01	0.07	
P-7800	642.00	8.00	120.00	Open	-125.19	2268.40	2268.69	0.29	0.45	
P-7810	1001.00	8.00	120.00	Open	13.26	2264.42	2264.42	0.01	0.01	
P-7820	377.00	8.00	120.00	Open	-86.49	2268.31	2268.40	0.09	0.23	
P-7830	335.00	8.00	120.00	Open	37.36	2268.40	2268.38	0.02	0.05	
P-7840	302.00	8.00	120.00	Open	0.58	2268.38	2268.38	0.00	0.00	
P-7850	1456.00	8.00	120.00	Open	-35.06	2268.32	2268.38	0.06	0.04	
P-7870	1132.00	8.00	120.00	Open	5.62	2268.31	2268.31	0.00	0.00	
P-7880	1071.00	8.00	120.00	Open	7.36	2268.31	2268.31	0.00	0.00	
P-7890	866.00	8.00	120.00	Open	2.29	2268.31	2268.31	0.00	0.00	
P-7910	611.00	8.00	120.00	Open	-67.15	2268.18	2268.26	0.09	0.14	
P-7920	121.00	8.00	120.00	Open	-62.71	2268.16	2268.18	0.02	0.13	
P-7930	218.00	8.00	120.00	Open	-60.04	2268.14	2268.16	0.03	0.12	
P-7940	56.00	8.00	120.00	Open	19.66	2268.26	2268.26	0.00	0.01	
P-7950	249.00	8.00	120.00	Open	-3.10	2268.26	2268.26	0.00	0.00	
P-7960	398.00	8.00	120.00	Open	-60.85	2268.26	2268.31	0.05	0.12	
P-7970	82.00	8.00	120.00	Open	-60.86	2268.31	2268.32	0.01	0.12	
P-7980	99.00	8.00	120.00	Open	-80.22	2268.32	2268.33	0.02	0.20	
P-7990	586.00	8.00	120.00	Open	-80.22	2268.33	2268.45	0.12	0.20	
P-8000	1204.00	8.00	120.00	Open	-143.44	2268.48	2269.18	0.70	0.58	
P-8005	435.00	8.00	120.00	Open	2.88	2264.41	2264.41	0.00	0.00	
P-8010	28.00	8.00	120.00	Open	-184.87	2268.45	2268.48	0.03	0.93	
P-8015	578.00	8.00	120.00	Open	1.35	2264.41	2264.41	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-8020	856.00	8.00	120.00	Open	-63.97	2268.34	2268.45	0.11	0.13	
P-8025	308.00	8.00	120.00	Open	0.39	2264.41	2264.41	0.00	0.00	
P-8030	53.00	8.00	120.00	Open	129.82	2269.30	2269.27	0.03	0.48	
P-8035	256.00	8.00	120.00	Open	-8.35	2264.44	2264.44	0.00	0.00	
P-8040	84.00	8.00	120.00	Open	122.09	2268.05	2268.02	0.04	0.43	
P-8050	959.00	8.00	120.00	Open	54.67	2268.02	2267.92	0.09	0.10	
P-8055	247.00	8.00	120.00	Open	-46.27	2267.91	2267.92	0.02	0.07	
P-8060	1159.00	8.00	120.00	Open	-54.19	2267.91	2268.02	0.11	0.10	
P-8065	851.00	8.00	120.00	Open	-53.28	2269.23	2269.31	0.08	0.09	
P-8070	114.00	8.00	120.00	Open	-95.29	2267.87	2267.91	0.03	0.27	
P-8080	471.00	8.00	120.00	Open	0.00	2267.92	2267.92	0.00	0.00	
P-8090	771.00	8.00	120.00	Open	86.82	2268.18	2268.01	0.18	0.23	
P-8100	41.00	8.00	120.00	Open	60.85	2268.19	2268.18	0.00	0.12	
P-8110	148.00	8.00	120.00	Open	-128.24	2268.82	2268.89	0.07	0.47	
P-8120	665.00	8.00	120.00	Open	-127.09	2268.51	2268.82	0.31	0.46	
P-8130	401.00	8.00	120.00	Open	105.89	2268.51	2268.38	0.13	0.33	
P-8140	973.00	8.00	120.00	Open	77.55	2268.38	2268.20	0.18	0.19	
P-8145	243.00	8.00	120.00	Open	0.00	2264.51	2264.51	0.00	0.00	
P-8155	509.00	8.00	120.00	Open	0.00	2264.51	2264.51	0.00	0.00	
P-8160	622.00	8.00	120.00	Open	19.42	2268.05	2268.05	0.01	0.01	
P-8170	306.00	8.00	120.00	Open	10.38	2264.42	2264.41	0.00	0.00	
P-8180	291.00	8.00	120.00	Open	0.58	2264.42	2264.42	0.00	0.00	
P-8190	603.00	8.00	120.00	Open	1.35	2264.41	2264.41	0.00	0.00	
P-8200	375.00	8.00	120.00	Open	1.92	2264.41	2264.41	0.00	0.00	
P-8210	529.00	8.00	120.00	Open	48.98	2268.06	2268.02	0.04	0.08	
P-8220	137.00	8.00	120.00	Open	53.90	2268.02	2268.00	0.01	0.09	
P-8230	743.00	8.00	120.00	Open	35.89	2268.00	2267.97	0.03	0.04	
P-8240	353.00	8.00	120.00	Open	52.01	2267.97	2267.94	0.03	0.09	
P-8250	1126.00	8.00	120.00	Open	-19.57	2267.97	2267.99	0.02	0.01	
P-8260	493.00	8.00	120.00	Open	1.35	2267.99	2267.99	0.00	0.00	
P-8270	403.00	8.00	120.00	Open	23.99	2268.00	2267.99	0.01	0.02	
P-8280	839.00	8.00	120.00	Open	15.90	2268.00	2268.00	0.01	0.01	
P-8290	639.00	8.00	120.00	Open	10.40	2268.00	2268.00	0.00	0.00	
P-8300	502.00	8.00	120.00	Open	-11.59	2268.00	2268.00	0.00	0.01	
P-8310	345.00	8.00	120.00	Open	-13.32	2268.00	2268.00	0.00	0.01	
P-8320	311.00	8.00	120.00	Open	-0.03	2268.00	2268.00	0.00	0.00	
P-8330	614.00	8.00	120.00	Open	4.50	2267.39	2267.39	0.00	0.00	
P-8340	439.00	8.00	120.00	Open	38.10	2267.25	2267.23	0.02	0.05	
P-8350	98.00	8.00	120.00	Open	32.94	2267.23	2267.22	0.00	0.04	
P-8360	50.00	8.00	120.00	Open	24.28	2267.22	2267.22	0.00	0.02	
P-8370	29.00	8.00	120.00	Open	24.28	2267.22	2267.22	0.00	0.02	
P-8380	899.00	8.00	120.00	Open	0.00	2267.22	2267.22	0.00	0.00	
P-8400	367.00	8.00	120.00	Open	0.00	2267.20	2267.20	0.00	0.00	
P-8410	38.00	8.00	120.00	Open	5.64	2267.16	2267.16	0.00	0.00	
P-8420	275.00	8.00	120.00	Open	0.19	2264.41	2264.41	0.00	0.00	
P-8430	420.00	8.00	120.00	Open	5.96	2264.41	2264.41	0.00	0.00	
P-8450	540.00	8.00	120.00	Open	10.58	2267.14	2267.13	0.00	0.00	
P-8460	270.00	8.00	120.00	Open	8.39	2267.13	2267.13	0.00	0.00	
P-8470	235.00	8.00	120.00	Open	1.35	2267.13	2267.13	0.00	0.00	
P-8480	323.00	8.00	120.00	Open	6.28	2267.13	2267.13	0.00	0.00	
P-8490	293.00	8.00	120.00	Open	3.59	2267.13	2267.13	0.00	0.00	
P-8500	382.00	8.00	120.00	Open	1.41	2267.13	2267.13	0.00	0.00	
P-8510	518.00	8.00	120.00	Open	0.96	2264.41	2264.41	0.00	0.00	
P-8520	255.00	8.00	120.00	Open	2.11	2267.13	2267.13	0.00	0.00	
P-8530	340.00	8.00	120.00	Open	1.15	2267.13	2267.13	0.00	0.00	
P-8540	436.00	8.00	120.00	Open	1.02	2267.13	2267.13	0.00	0.00	
P-8550	287.00	8.00	120.00	Open	0.06	2267.13	2267.13	0.00	0.00	
P-8560	549.00	8.00	120.00	Open	0.58	2264.41	2264.41	0.00	0.00	
P-8570	334.00	8.00	120.00	Open	0.89	2267.13	2267.13	0.00	0.00	
P-8580	36.00	8.00	120.00	Open	0.32	2267.13	2267.13	0.00	0.00	
P-8590	270.00	8.00	120.00	Open	1.15	2267.13	2267.13	0.00	0.00	
P-8600	458.00	8.00	120.00	Open	1.80	2267.13	2267.13	0.00	0.00	
P-8610	685.00	8.00	120.00	Open	2.18	2267.13	2267.13	0.00	0.00	
P-8620	311.00	8.00	120.00	Open	7.19	2267.13	2267.13	0.00	0.00	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-8630	233.00	8.00	120.00	Open	11.38	2267.14	2267.14	0.00	0.01	
P-8640	83.00	8.00	120.00	Open	4.42	2267.14	2267.14	0.00	0.00	
P-8660	1206.00	8.00	120.00	Closed	0.00	2267.06	2267.16	0.00	0.00	
P-8670	373.00	8.00	120.00	Open	-4.33	2267.06	2267.06	0.00	0.00	
P-8680	474.00	8.00	120.00	Closed	0.00	2267.06	2267.06	0.00	0.00	
P-8690	166.00	8.00	120.00	Open	3.37	2267.06	2267.06	0.00	0.00	
P-8700	659.00	8.00	120.00	Open	1.19	2267.06	2267.06	0.00	0.00	
P-8710	1776.00	8.00	120.00	Open	-10.06	2267.34	2267.34	0.01	0.00	
P-8720	346.00	8.00	120.00	Open	-10.06	2267.33	2267.34	0.00	0.00	
P-8730	1958.00	8.00	120.00	Open	-8.33	2267.33	2267.33	0.01	0.00	
P-8740	1148.00	8.00	120.00	Open	15.04	2267.29	2267.28	0.01	0.01	
P-8750	72.00	8.00	120.00	Open	11.79	2267.14	2267.14	0.00	0.01	
P-8770	121.00	8.00	120.00	Open	72.20	2265.33	2265.31	0.02	0.16	
P-8780	135.00	8.00	120.00	Open	69.25	2265.31	2265.29	0.02	0.15	
P-8790	150.00	8.00	120.00	Open	68.39	2265.29	2265.26	0.02	0.15	
P-8800	179.00	8.00	120.00	Open	62.90	2265.26	2265.24	0.02	0.13	
P-8810	211.00	8.00	120.00	Open	59.27	2265.24	2265.22	0.02	0.11	
P-8820	68.00	8.00	120.00	Open	55.63	2265.22	2265.21	0.01	0.10	
P-8830	54.00	8.00	120.00	Open	53.87	2265.21	2265.21	0.01	0.09	
P-8840	67.00	8.00	120.00	Open	52.34	2265.21	2265.20	0.01	0.09	
P-8850	80.00	8.00	120.00	Open	49.04	2265.20	2265.19	0.01	0.08	
P-8860	101.00	8.00	120.00	Open	47.36	2265.19	2265.19	0.01	0.07	
P-8870	391.00	8.00	120.00	Open	44.61	2265.19	2265.16	0.03	0.07	
P-8880	301.00	8.00	120.00	Open	1.76	2265.21	2265.21	0.00	0.00	
P-8890	147.00	8.00	120.00	Open	3.63	2265.24	2265.24	0.00	0.00	
P-8900	273.00	8.00	120.00	Open	1.07	2265.31	2265.31	0.00	0.00	
P-8910	67.00	8.00	120.00	Open	292.75	2264.99	2264.85	0.15	2.18	
P-8920	800.00	8.00	120.00	Open	-187.63	2264.08	2264.85	0.76	0.96	
P-8930	68.00	8.00	120.00	Open	-182.79	2264.02	2264.08	0.06	0.91	
P-8940	96.00	8.00	120.00	Open	4.85	2264.08	2264.08	0.00	0.00	
P-8950	261.00	8.00	120.00	Open	-172.05	2263.81	2264.02	0.21	0.81	
P-8960	626.00	8.00	120.00	Open	-102.42	2263.61	2263.81	0.19	0.31	
P-8970	203.00	8.00	120.00	Open	-59.54	2263.59	2263.61	0.02	0.11	
P-8980	105.00	8.00	120.00	Open	69.62	2263.81	2263.79	0.02	0.15	
P-8990	184.00	8.00	120.00	Open	61.12	2263.79	2263.77	0.02	0.12	
P-9000	166.00	6.00	120.00	Open	3.51	2317.84	2317.84	0.00	0.00	
P-9005	831.00	6.00	110.00	Open	-2.92	2302.18	2302.18	0.00	0.00	
P-9030	78.00	6.00	120.00	Open	-4.13	2276.86	2276.87	0.00	0.00	
P-9045	371.00	6.00	110.00	Open	4.24	2298.00	2298.00	0.00	0.00	
P-9055	119.00	6.00	110.00	Open	2.83	2298.00	2298.00	0.00	0.00	
P-9060	62.00	6.00	120.00	Open	0.00	2296.60	2296.60	0.00	0.00	
P-9065	48.00	6.00	120.00	Open	0.00	2295.02	2295.02	0.00	0.00	
P-9070	80.00	6.00	120.00	Open	0.00	2294.25	2294.25	0.00	0.00	
P-9075	62.00	6.00	120.00	Open	0.00	2294.03	2294.03	0.00	0.00	
P-9080	45.00	6.00	120.00	Open	0.00	2292.22	2292.22	0.00	0.00	
P-9085	861.00	6.00	120.00	Open	1.54	2309.68	2309.68	0.00	0.00	
P-9090	329.00	6.00	120.00	Open	209.25	2279.49	2277.93	1.56	4.75	
P-9095	870.00	6.00	120.00	Open	88.92	2277.93	2277.08	0.85	0.97	
P-9100	1524.00	6.00	115.00	Open	29.69	2277.08	2276.87	0.21	0.14	
P-9105	645.00	6.00	115.00	Open	0.00	2276.87	2276.87	0.00	0.00	
P-9110	649.00	6.00	120.00	Open	-6.98	2276.86	2276.86	0.01	0.01	
P-9115	164.00	6.00	120.00	Open	-57.87	2277.01	2277.08	0.07	0.44	
P-9120	123.00	6.00	120.00	Open	-26.18	2277.00	2277.01	0.01	0.10	
P-9125	890.00	6.00	120.00	Open	-29.62	2276.89	2277.00	0.11	0.13	
P-9130	533.00	6.00	120.00	Open	119.57	2277.93	2277.03	0.90	1.68	
P-9140	61.00	6.00	120.00	Open	55.95	2276.89	2276.86	0.03	0.41	
P-9145	53.00	6.00	120.00	Open	-67.50	2277.00	2277.03	0.03	0.59	
P-9150	249.00	6.00	120.00	Open	0.00	2277.00	2277.00	0.00	0.00	
P-9155	207.00	6.00	120.00	Open	-64.35	2276.89	2277.00	0.11	0.53	
P-9160	809.00	6.00	120.00	Open	-30.94	2276.78	2276.89	0.11	0.14	
P-9165	138.00	6.00	120.00	Open	-11.87	2276.78	2276.78	0.00	0.02	
P-9170	228.00	6.00	120.00	Open	-36.74	2276.73	2276.78	0.04	0.19	
P-9175	296.00	6.00	120.00	Open	14.52	2276.78	2276.77	0.01	0.03	
P-9180	174.00	6.00	120.00	Open	-31.37	2276.87	2276.89	0.02	0.14	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-9185	532.00	6.00	120.00	Open	-22.85	2276.82	2276.87	0.04	0.08	
P-9195	441.00	6.00	120.00	Open	27.34	2276.82	2276.78	0.05	0.11	
P-9200	416.00	6.00	120.00	Open	11.20	2276.83	2276.82	0.01	0.02	
P-9205	364.00	6.00	120.00	Open	8.39	2276.84	2276.83	0.00	0.01	
P-9210	331.00	6.00	115.00	Open	82.68	2273.33	2273.02	0.30	0.92	
P-9400	542.00	6.00	120.00	Open	92.42	2276.64	2276.07	0.57	1.05	
P-9405	434.00	6.00	120.00	Open	46.70	2276.76	2276.64	0.13	0.30	
P-9410	282.00	6.00	120.00	Open	-27.22	2276.73	2276.76	0.03	0.11	
P-9415a	164.00	6.00	115.00	Open	-40.69	2277.58	2277.62	0.04	0.25	
P-9415b	562.00	6.00	115.00	Open	-36.21	2277.47	2277.58	0.11	0.20	
P-9420	89.00	6.00	115.00	Open	-327.58	2276.42	2277.47	1.05	11.78	
P-9435	300.00	6.00	115.00	Open	-63.63	2274.52	2274.69	0.17	0.57	
P-9440	486.00	6.00	115.00	Open	107.40	2274.52	2273.79	0.73	1.49	
P-9445	313.00	6.00	115.00	Open	2.69	2273.79	2273.79	0.00	0.00	
P-9450	285.00	6.00	115.00	Open	-142.25	2272.68	2273.39	0.72	2.51	
P-9455	354.00	6.00	115.00	Open	100.48	2273.79	2273.33	0.47	1.32	
P-9460	673.00	6.00	115.00	Open	-301.76	2265.87	2272.68	6.81	10.12	
P-9465a	708.00	8.00	115.00	Open	788.03	2267.24	2256.80	10.44	14.75	
P-9465b	269.00	8.00	115.00	Open	-605.67	2256.80	2259.24	2.44	9.06	
P-9470	347.00	6.00	115.00	Open	308.54	2269.53	2265.87	3.66	10.54	
P-9475	320.00	6.00	115.00	Open	155.78	2270.48	2269.53	0.95	2.97	
P-9480	62.00	6.00	115.00	Open	50.27	2270.50	2270.48	0.02	0.37	
P-9485	325.00	6.00	115.00	Open	206.88	2272.13	2270.50	1.63	5.03	
P-9490	96.00	6.00	115.00	Open	1.11	2272.13	2272.13	0.00	0.00	
P-9495	426.00	6.00	115.00	Open	5.53	2272.14	2272.13	0.00	0.01	
P-9500	666.00	6.00	115.00	Open	-86.56	2271.47	2272.14	0.67	1.00	
P-9505	394.00	6.00	115.00	Open	-48.13	2271.34	2271.47	0.13	0.34	
P-9510	1164.00	6.00	120.00	Open	26.73	2271.67	2271.54	0.12	0.10	
P-9515	404.00	6.00	120.00	Open	0.00	2271.42	2271.42	0.00	0.00	
P-9520	376.00	6.00	120.00	Open	0.00	2271.44	2271.44	0.00	0.00	
P-9525	878.00	6.00	120.00	Open	-84.17	2270.67	2271.44	0.77	0.88	
P-9530	87.00	6.00	120.00	Open	41.35	2270.09	2270.07	0.02	0.24	
P-9535	446.00	6.00	120.00	Open	-81.36	2270.30	2270.67	0.37	0.83	
P-9540	408.00	6.00	120.00	Open	-15.90	2270.29	2270.30	0.02	0.04	
P-9545	309.00	6.00	120.00	Open	0.77	2271.40	2271.40	0.00	0.00	
P-9550	568.00	6.00	120.00	Open	17.64	2274.52	2274.49	0.03	0.05	
P-9555	348.00	6.00	120.00	Open	36.21	2274.52	2274.45	0.06	0.18	
P-9560	470.00	6.00	120.00	Open	9.14	2274.52	2274.51	0.01	0.01	
P-9565	183.00	6.00	120.00	Open	1.59	2272.00	2272.00	0.00	0.00	
P-9570	183.00	6.00	120.00	Open	0.00	2272.00	2272.00	0.00	0.00	
P-9575	377.00	6.00	120.00	Open	14.17	2271.17	2271.16	0.01	0.03	
P-9580	609.00	6.00	120.00	Open	40.45	2271.16	2271.02	0.14	0.23	
P-9585	190.00	6.00	90.00	Open	-48.04	2271.02	2271.12	0.10	0.53	
P-9590	387.00	6.00	120.00	Open	13.48	2271.12	2271.11	0.01	0.03	
P-9595	311.00	6.00	120.00	Open	-13.39	2270.63	2270.63	0.01	0.03	
P-9610	112.00	6.00	120.00	Open	0.19	2270.29	2270.29	0.00	0.00	
P-9615	167.00	6.00	120.00	Open	58.02	2270.07	2270.00	0.07	0.44	
P-9620	454.00	6.00	120.00	Open	63.56	2270.00	2269.76	0.24	0.52	
P-9625	169.00	6.00	120.00	Open	63.61	2270.05	2269.96	0.09	0.52	
P-9630	325.00	6.00	120.00	Open	-71.30	2270.09	2270.30	0.21	0.65	
P-9635	397.00	6.00	90.00	Open	37.89	2270.08	2269.94	0.14	0.34	
P-9640	201.00	6.00	90.00	Open	64.77	2269.94	2269.76	0.19	0.92	
P-9645	329.00	6.00	90.00	Open	59.08	2269.76	2269.50	0.26	0.78	
P-9650	916.00	6.00	120.00	Open	-2.50	2269.76	2269.76	0.00	0.00	
P-9655	491.00	6.00	90.00	Open	-56.96	2269.15	2269.50	0.36	0.73	
P-9660	621.00	6.00	90.00	Open	-17.58	2269.09	2269.15	0.05	0.08	
P-9675	63.00	6.00	120.00	Open	-5.66	2270.27	2270.27	0.00	0.00	
P-9680	206.00	6.00	120.00	Open	-2.68	2270.27	2270.27	0.00	0.00	
P-9685	105.00	6.00	120.00	Open	0.31	2270.27	2270.27	0.00	0.00	
P-9690	106.00	6.00	120.00	Open	6.29	2270.28	2270.27	0.00	0.01	
P-9695	80.00	6.00	120.00	Open	6.29	2270.28	2270.28	0.00	0.01	
P-9700	318.00	6.00	120.00	Open	-3.64	2270.27	2270.27	0.00	0.00	
P-9705	295.00	6.00	120.00	Open	-5.42	2270.27	2270.27	0.00	0.01	
P-9710	33.00	6.00	120.00	Open	32.66	2268.90	2268.89	0.00	0.15	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-9715	47.00	6.00	120.00	Open	4.57	2268.90	2268.90	0.00	0.01	
P-9725	941.00	6.00	120.00	Open	39.15	2269.14	2268.94	0.20	0.21	
P-9730	364.00	8.00	120.00	Open	-34.36	2269.11	2269.13	0.01	0.04	
P-9735	365.00	8.00	120.00	Open	28.95	2269.14	2269.13	0.01	0.03	
P-9740	202.00	8.00	120.00	Open	-34.06	2269.10	2269.11	0.01	0.04	
P-9745	418.00	8.00	120.00	Open	-86.61	2269.01	2269.10	0.10	0.23	
P-9750	326.00	8.00	120.00	Open	-30.46	2269.00	2269.01	0.01	0.03	
P-9755	650.00	8.00	120.00	Open	-13.88	2269.14	2269.14	0.00	0.01	
P-9760	38.00	6.00	120.00	Open	58.41	2269.16	2269.14	0.02	0.45	
P-9765	621.00	6.00	120.00	Open	33.92	2269.26	2269.16	0.10	0.16	
P-9770	629.00	6.00	120.00	Open	0.64	2269.27	2269.27	0.00	0.00	
P-9775	664.00	8.00	115.00	Open	-72.75	2269.14	2269.26	0.12	0.18	
P-9780	92.00	8.00	115.00	Open	-73.13	2269.26	2269.28	0.02	0.18	
P-9785	914.00	6.00	120.00	Open	6.27	2269.28	2269.27	0.01	0.01	
P-9790	194.00	8.00	115.00	Open	-81.11	2269.28	2269.32	0.04	0.22	
P-9795	296.00	4.00	115.00	Open	-11.07	2269.32	2269.37	0.05	0.16	
P-9800	107.00	6.00	120.00	Open	0.58	2269.57	2269.57	0.00	0.00	
P-9805	890.00	6.00	120.00	Open	14.64	2269.29	2269.26	0.03	0.03	
P-9810	1244.00	6.00	120.00	Open	36.86	2268.90	2268.66	0.24	0.19	
P-9815	205.00	6.00	120.00	Open	-53.28	2269.31	2269.39	0.08	0.38	
P-9820	160.00	6.00	120.00	Open	0.00	2269.90	2269.90	0.00	0.00	
P-9870	665.00	6.00	115.00	Open	-12.18	2270.27	2270.29	0.02	0.03	
P-9875	343.00	6.00	115.00	Open	-2.59	2270.27	2270.27	0.00	0.00	
P-9880	569.00	6.00	115.00	Open	-2.20	2270.27	2270.27	0.00	0.00	
P-9885	28.00	6.00	120.00	Open	0.00	2270.27	2270.27	0.00	0.00	
P-10095	701.00	6.00	120.00	Open	-1.68	2271.34	2271.34	0.00	0.00	
P-10100	351.00	6.00	120.00	Open	0.05	2271.34	2271.34	0.00	0.00	
P-10105	382.00	6.00	120.00	Open	1.59	2271.34	2271.34	0.00	0.00	
P-10110	1181.00	6.00	120.00	Open	1.37	2271.33	2271.33	0.00	0.00	
P-10115	967.00	6.00	120.00	Open	-1.13	2271.33	2271.33	0.00	0.00	
P-10120	416.00	6.00	120.00	Open	1.54	2271.33	2271.33	0.00	0.00	
P-10125	317.00	6.00	120.00	Open	0.96	2271.33	2271.33	0.00	0.00	
P-10130	424.00	6.00	120.00	Open	-17.37	2271.31	2271.33	0.02	0.05	
P-10135	59.00	6.00	120.00	Open	10.98	2271.33	2271.33	0.00	0.02	
P-10140	271.00	6.00	120.00	Open	6.56	2271.33	2271.33	0.00	0.01	
P-10145	730.00	6.00	120.00	Open	-14.27	2271.33	2271.35	0.02	0.03	
P-10150	208.00	6.00	120.00	Open	-16.19	2271.35	2271.36	0.01	0.04	
P-10155	110.00	6.00	120.00	Open	-1.35	2271.36	2271.36	0.00	0.00	
P-10160	611.00	6.00	120.00	Open	2.31	2271.36	2271.36	0.00	0.00	
P-10165	266.00	6.00	120.00	Open	17.37	2271.33	2271.31	0.01	0.05	
P-10170	390.00	6.00	120.00	Open	0.19	2271.39	2271.39	0.00	0.00	
P-10225	271.00	6.00	120.00	Open	0.00	2268.75	2268.75	0.00	0.00	
P-10230	218.00	6.00	120.00	Open	0.00	2268.75	2268.75	0.00	0.00	
P-10235	183.00	6.00	120.00	Open	0.00	2268.75	2268.75	0.00	0.00	
P-10245	203.00	6.00	120.00	Open	0.00	2268.26	2268.26	0.00	0.00	
P-10250	54.00	6.00	120.00	Open	0.00	2268.31	2268.31	0.00	0.00	
P-10255	937.00	6.00	120.00	Open	6.13	2268.32	2268.31	0.01	0.01	
P-10260	428.00	6.00	120.00	Open	48.33	2268.26	2268.12	0.13	0.31	
P-10265	485.00	6.00	120.00	Open	2.74	2267.92	2267.92	0.00	0.00	
P-10270	373.00	6.00	120.00	Open	-63.97	2268.14	2268.34	0.20	0.53	
P-10275	619.00	6.00	120.00	Open	39.63	2267.90	2267.76	0.14	0.22	
P-10280	404.00	6.00	120.00	Open	-10.33	2267.76	2267.77	0.01	0.02	
P-10285	40.00	6.00	120.00	Open	-5.41	2267.77	2267.77	0.00	0.01	
P-10290	177.00	6.00	120.00	Open	-53.61	2267.77	2267.84	0.07	0.38	
P-10300	361.00	6.00	120.00	Open	-58.75	2267.84	2268.00	0.16	0.45	
P-10305	539.00	6.00	120.00	Open	-47.92	2267.60	2267.76	0.17	0.31	
P-10310	358.00	6.00	120.00	Open	-46.38	2267.49	2267.60	0.10	0.29	
P-10315	266.00	6.00	120.00	Open	34.35	2267.49	2267.45	0.04	0.17	
P-10320	409.00	6.00	120.00	Open	0.00	2267.49	2267.49	0.00	0.00	
P-10325	345.00	6.00	120.00	Open	5.37	2267.60	2267.60	0.00	0.01	
P-10330	330.00	6.00	120.00	Open	-48.19	2267.67	2267.77	0.10	0.31	
P-10335	343.00	6.00	120.00	Open	-38.05	2267.60	2267.67	0.07	0.20	
P-10340	194.00	6.00	120.00	Open	-23.62	2267.58	2267.60	0.02	0.08	
P-10345	757.00	6.00	120.00	Open	-19.74	2267.54	2267.58	0.05	0.06	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-10350	359.00	6.00	120.00	Open	-1.35	2268.34	2268.34	0.00	0.00	
P-10355	730.00	6.00	120.00	Open	-27.70	2268.18	2268.27	0.08	0.11	
P-10360	562.00	6.00	120.00	Open	-38.20	2268.27	2268.38	0.11	0.20	
P-10365	414.00	6.00	120.00	Open	9.94	2268.02	2268.01	0.01	0.02	
P-10370	775.00	6.00	120.00	Open	6.54	2268.01	2268.01	0.01	0.01	
P-10375	274.00	6.00	120.00	Open	2.15	2268.01	2268.01	0.00	0.00	
P-10380	166.00	6.00	120.00	Open	0.00	2267.54	2267.54	0.00	0.00	
P-10385	2520.00	6.00	120.00	Open	-19.74	2267.39	2267.54	0.15	0.06	
P-10390	44.00	6.00	120.00	Open	1.71	2267.39	2267.39	0.00	0.01	
P-10395	208.00	6.00	120.00	Open	24.28	2267.22	2267.20	0.02	0.09	
P-10400	548.00	6.00	120.00	Open	0.00	2267.20	2267.20	0.00	0.00	
P-10405	76.00	6.00	120.00	Open	0.00	2279.40	2279.40	0.00	0.00	
P-10410	408.00	6.00	120.00	Open	0.84	2274.49	2274.49	0.00	0.00	
P-10415	92.00	6.00	120.00	Open	-83.73	2268.85	2268.93	0.08	0.87	
P-10420	144.00	6.00	120.00	Open	-73.82	2268.75	2268.85	0.10	0.69	
P-10425	617.00	6.00	120.00	Open	-65.02	2268.42	2268.75	0.34	0.55	
P-10430	382.00	6.00	120.00	Open	17.92	2268.42	2268.40	0.02	0.05	
P-10435	143.00	6.00	120.00	Open	-46.52	2268.38	2268.42	0.04	0.29	
P-10440	444.00	6.00	120.00	Open	-45.75	2268.25	2268.38	0.13	0.28	
P-10445	125.00	6.00	120.00	Open	-118.22	2268.69	2268.89	0.21	1.65	
P-10450	152.00	6.00	120.00	Open	-117.65	2268.44	2268.69	0.25	1.63	
P-10455	187.00	6.00	120.00	Open	-0.58	2267.67	2267.67	0.00	0.00	
P-10460	299.00	8.00	120.00	Open	10.56	2267.23	2267.23	0.00	0.00	
P-10465	244.00	8.00	120.00	Open	11.09	2267.23	2267.23	0.00	0.01	
P-10470	288.00	8.00	120.00	Open	11.09	2267.24	2267.23	0.00	0.01	
P-10475	336.00	6.00	115.00	Open	4.49	2267.13	2267.13	0.00	0.00	
P-10480	727.00	6.00	115.00	Open	-3.67	2267.13	2267.13	0.00	0.00	
P-10485	83.00	6.00	120.00	Open	31.21	2267.22	2267.21	0.01	0.14	
P-10490	128.00	6.00	120.00	Open	9.81	2267.14	2267.14	0.00	0.02	
P-10495	337.00	6.00	115.00	Open	7.39	2267.14	2267.13	0.00	0.01	
P-10500	557.00	6.00	115.00	Open	-7.75	2267.06	2267.07	0.01	0.01	
P-10505	911.00	6.00	115.00	Open	1.54	2267.06	2267.06	0.00	0.00	
P-10510	341.00	6.00	115.00	Open	7.21	2267.06	2267.06	0.00	0.01	
P-10515	145.00	6.00	120.00	Open	0.00	2267.06	2267.06	0.00	0.00	
P-10525	42.00	6.00	120.00	Open	11.98	2267.14	2267.14	0.00	0.02	
P-10530	183.00	6.00	120.00	Open	0.76	2265.22	2265.22	0.00	0.00	
P-10535	182.00	6.00	120.00	Open	3.64	2265.22	2265.22	0.00	0.00	
P-10540	917.00	6.00	120.00	Open	-3.01	2265.15	2265.15	0.00	0.00	
P-10550	344.00	6.00	120.00	Open	-8.34	2265.15	2265.15	0.00	0.01	
P-10555	430.00	6.00	120.00	Open	-11.06	2265.15	2265.16	0.01	0.02	
P-10560	189.00	6.00	120.00	Open	13.07	2265.17	2265.16	0.01	0.03	
P-10565	285.00	6.00	120.00	Open	7.50	2265.16	2265.16	0.00	0.01	
P-10570	242.00	6.00	120.00	Open	4.04	2265.16	2265.16	0.00	0.00	
P-10575	671.00	6.00	120.00	Open	2.69	2265.16	2265.16	0.00	0.00	
P-10580	1060.00	6.00	120.00	Open	-35.22	2264.56	2264.75	0.19	0.18	
P-10585	176.00	6.00	120.00	Open	-8.55	2264.56	2264.56	0.00	0.01	
P-10590	197.00	6.00	120.00	Open	26.28	2264.56	2264.54	0.02	0.10	
P-10595	129.00	6.00	120.00	Open	3.93	2264.54	2264.54	0.00	0.00	
P-10600	132.00	6.00	120.00	Open	22.35	2264.54	2264.53	0.01	0.07	
P-10605	76.00	6.00	120.00	Open	0.00	2264.69	2264.69	0.00	0.00	
P-10610	87.00	6.00	120.00	Open	0.00	2264.60	2264.60	0.00	0.00	
P-10615	298.00	6.00	120.00	Open	52.60	2264.85	2264.74	0.11	0.37	
P-10620	1094.00	6.00	120.00	Open	-52.52	2264.45	2264.85	0.40	0.37	
P-10625	595.00	6.00	120.00	Open	25.43	2264.50	2264.45	0.06	0.10	
P-10630	220.00	6.00	120.00	Open	-29.41	2264.42	2264.45	0.03	0.13	
P-10635	186.00	6.00	120.00	Open	48.54	2264.45	2264.39	0.06	0.32	
P-10640	109.00	6.00	120.00	Open	0.00	2264.39	2264.39	0.00	0.00	
P-10645	170.00	6.00	120.00	Open	0.00	2264.39	2264.39	0.00	0.00	
P-10650	161.00	6.00	120.00	Open	10.74	2264.02	2264.02	0.00	0.02	
P-10655	99.00	6.00	120.00	Open	10.74	2264.02	2264.02	0.00	0.02	
P-10660	115.00	6.00	120.00	Open	0.00	2264.02	2264.02	0.00	0.00	
P-10665	563.00	6.00	120.00	Open	5.37	2264.02	2264.01	0.00	0.01	
P-10670	470.00	6.00	120.00	Open	18.40	2263.61	2263.59	0.02	0.05	
P-10680	119.00	6.00	120.00	Open	26.05	2263.73	2263.71	0.01	0.10	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-10685	164.00	6.00	120.00	Open	11.16	2263.71	2263.71	0.00	0.02	
P-10690	57.00	6.00	120.00	Open	14.88	2263.71	2263.71	0.00	0.03	
P-10695	645.00	6.00	120.00	Open	-9.30	2263.70	2263.71	0.01	0.01	
P-10700	42.00	6.00	120.00	Open	5.58	2263.71	2263.71	0.00	0.01	
P-10705	45.00	6.00	120.00	Open	6.38	2263.77	2263.77	0.00	0.01	
P-10710	278.00	6.00	120.00	Open	0.00	2264.55	2264.55	0.00	0.00	
P-10715	405.00	6.00	120.00	Open	22.90	2264.54	2264.51	0.03	0.08	
P-10720	113.00	6.00	120.00	Open	26.31	2264.53	2264.52	0.01	0.10	
P-10725	230.00	6.00	120.00	Open	25.44	2264.52	2264.50	0.02	0.10	
P-10730	145.00	6.00	120.00	Open	19.62	2264.51	2264.50	0.01	0.06	
P-10735	266.00	6.00	120.00	Open	0.00	2264.51	2264.51	0.00	0.00	
P-10740	240.00	6.00	120.00	Open	44.19	2264.50	2264.43	0.06	0.27	
P-10745	126.00	6.00	120.00	Open	14.70	2264.42	2264.41	0.00	0.03	
P-10750	83.00	6.00	120.00	Open	-1.77	2264.41	2264.41	0.00	0.00	
P-10760	160.00	8.00	120.00	Open	11.38	2264.42	2264.42	0.00	0.00	
P-10765	337.00	6.00	120.00	Open	-26.29	2264.42	2264.45	0.03	0.10	
P-10770	335.00	6.00	120.00	Open	5.96	2264.48	2264.47	0.00	0.01	
P-10775	64.00	6.00	120.00	Open	4.80	2264.47	2264.47	0.00	0.00	
P-10780	282.00	6.00	120.00	Open	4.04	2264.47	2264.47	0.00	0.00	
P-10785	89.00	6.00	120.00	Open	-33.92	2264.42	2264.43	0.01	0.16	
P-10790	39.00	6.00	120.00	Open	0.87	2264.50	2264.50	0.00	0.00	
P-10800	597.00	6.00	120.00	Open	-0.96	2264.42	2264.42	0.00	0.00	
P-10805	639.00	6.00	120.00	Open	1.54	2264.42	2264.42	0.00	0.00	
P-10820	616.00	6.00	110.00	Open	0.63	2267.28	2267.28	0.00	0.00	
P-10830	464.00	6.00	110.00	Open	0.00	2267.28	2267.28	0.00	0.00	
P-11075	767.00	4.00	90.00	Open	2.88	2272.13	2272.12	0.02	0.02	
P-11080	261.00	4.00	90.00	Open	0.00	2271.28	2271.28	0.00	0.00	
P-11085	665.00	4.00	90.00	Open	0.90	2271.79	2271.79	0.00	0.00	
P-11090	815.00	4.00	90.00	Open	-0.81	2271.43	2271.43	0.00	0.00	
P-11095	322.00	4.00	90.00	Open	-41.85	2271.44	2272.39	0.95	2.96	
P-11100	1121.00	4.00	90.00	Open	0.00	2272.39	2272.39	0.00	0.00	
P-11105	455.00	4.00	90.00	Open	4.20	2271.44	2271.42	0.02	0.04	
P-11110	442.00	4.00	90.00	Open	3.96	2271.42	2271.41	0.02	0.04	
P-11115	438.00	4.00	90.00	Open	1.08	2271.41	2271.40	0.00	0.00	
P-11120	399.00	4.00	90.00	Open	0.06	2271.40	2271.40	0.00	0.00	
P-11125	742.00	4.00	90.00	Open	-33.55	2273.00	2274.45	1.46	1.96	
P-11130	610.00	4.00	90.00	Open	-35.98	2271.63	2273.00	1.36	2.24	
P-11135	398.00	4.00	90.00	Open	6.79	2271.40	2271.36	0.04	0.10	
P-11140	474.00	4.00	90.00	Open	2.61	2270.30	2270.29	0.01	0.02	
P-11145	318.00	4.00	90.00	Open	-7.15	2270.27	2270.30	0.04	0.11	
P-11150	343.00	4.00	90.00	Open	-18.12	2270.30	2270.52	0.22	0.63	
P-11155	291.00	4.00	90.00	Open	-12.66	2270.52	2270.61	0.09	0.32	
P-11160	314.00	4.00	90.00	Open	-6.87	2270.52	2270.55	0.03	0.10	
P-11165	619.00	8.00	120.00	Open	77.45	2270.55	2270.44	0.11	0.19	
P-11170	824.00	8.00	120.00	Open	75.61	2270.44	2270.29	0.15	0.18	
P-11175	67.00	4.00	90.00	Open	15.21	2270.28	2270.25	0.03	0.46	
P-11180	273.00	4.00	90.00	Open	12.97	2270.25	2270.15	0.09	0.34	
P-11205	689.00	4.00	90.00	Open	5.77	2269.27	2269.22	0.05	0.08	
P-11210	1167.00	4.00	90.00	Open	2.30	2269.22	2269.20	0.02	0.01	
P-11225	355.00	4.00	90.00	Open	4.28	2269.27	2269.26	0.02	0.04	
P-11230	394.00	4.00	90.00	Open	12.91	2269.26	2269.13	0.13	0.34	
P-11240	862.00	4.00	90.00	Open	-7.21	2268.90	2269.00	0.10	0.11	
P-11245	210.00	4.00	90.00	Open	-15.30	2269.00	2269.09	0.10	0.46	
P-11250	712.00	4.00	90.00	Open	-9.91	2268.71	2268.85	0.15	0.21	
P-11255	334.00	4.00	90.00	Open	-6.14	2268.02	2268.05	0.03	0.08	
P-11260	135.00	4.00	90.00	Open	12.32	2268.05	2268.00	0.04	0.31	
P-11265	337.00	4.00	90.00	Open	-1.77	2268.00	2268.01	0.00	0.01	
P-11270	871.00	4.00	90.00	Open	-1.89	2268.00	2268.01	0.01	0.01	
P-11275	432.00	8.00	90.00	Open	-62.95	2268.09	2268.18	0.09	0.22	
P-11280	1203.00	4.00	90.00	Open	-6.51	2268.09	2268.20	0.11	0.09	
P-11290	23.00	4.00	90.00	Open	63.63	2268.20	2268.05	0.15	6.43	
P-11295	426.00	4.00	90.00	Open	4.82	2268.20	2268.18	0.02	0.05	
P-11300	679.00	4.00	90.00	Open	7.81	2268.27	2268.18	0.09	0.13	
P-11305	414.00	4.00	90.00	Open	11.10	2268.18	2268.07	0.10	0.25	

Link Label	Length (ft)	Diameter (in)	Roughness Coefficient	Control Status	Discharge (gpm)	Upstream Hydraulic Grade (ft)	Downstream Hydraulic Grade (ft)		Headloss (ft)	Headloss Gradient (ft/1000ft)
							Hydraulic Grade (ft)	Headloss (ft)		
P-11310	343.00	4.00	90.00	Open	9.37	2268.07	2268.01	0.06	0.19	
P-11365	451.00	4.00	90.00	Open	-0.45	2270.15	2270.15	0.00	0.00	
P-11415	669.00	4.00	90.00	Open	16.96	2268.14	2267.77	0.37	0.56	
P-11420	1070.00	4.00	90.00	Open	-2.61	2268.12	2268.14	0.02	0.02	
P-11425	526.00	4.00	90.00	Open	-8.74	2267.58	2267.67	0.09	0.16	
P-11430	685.00	4.00	90.00	Open	11.70	2267.72	2267.53	0.19	0.28	
P-11435	1194.00	4.00	90.00	Open	7.09	2267.53	2267.40	0.13	0.11	
P-11440	246.00	4.00	90.00	Open	3.63	2267.40	2267.39	0.01	0.03	
P-11445	71.00	4.00	90.00	Open	-3.63	2267.39	2267.39	0.00	0.03	
P-11450	366.00	4.00	90.00	Open	5.45	2267.16	2267.13	0.02	0.07	
P-11455	844.00	4.00	90.00	Open	-0.57	2267.13	2267.13	0.00	0.00	
P-11460	312.00	4.00	90.00	Open	2.23	2267.14	2267.13	0.00	0.01	
P-11465	880.00	4.00	90.00	Open	-0.65	2267.13	2267.13	0.00	0.00	
P-11470	705.00	4.00	90.00	Open	5.80	2267.14	2267.08	0.05	0.08	
P-11475	396.00	4.00	90.00	Open	4.07	2267.08	2267.07	0.02	0.04	
P-11480	397.00	4.00	90.00	Open	2.34	2267.07	2267.06	0.01	0.01	
P-11485	945.00	4.00	90.00	Open	3.08	2267.14	2267.11	0.02	0.02	
P-11495	233.00	4.00	90.00	Open	0.00	2267.05	2267.05	0.00	0.00	
P-11500	673.00	4.00	90.00	Open	-1.29	2265.15	2265.15	0.00	0.00	
P-11505	478.00	4.00	90.00	Open	-0.60	2265.15	2265.15	0.00	0.00	
P-12010	445.00	2.00	85.00	Open	6.84	2274.49	2273.00	1.49	3.36	
P-12015	258.00	8.00	120.00	Open	40.55	2270.29	2270.28	0.01	0.06	
P-12020	264.00	8.00	85.00	Open	-22.47	2270.28	2270.29	0.01	0.04	
P-12040	463.00	2.00	85.00	Open	0.58	2269.22	2269.20	0.02	0.03	
P-12045	1461.00	2.00	85.00	Open	1.25	2269.32	2269.11	0.21	0.14	
P-12050	53.00	2.00	85.00	Open	-8.37	2268.45	2268.71	0.26	4.89	
P-12055	948.00	2.00	85.00	Open	-0.72	2268.46	2268.51	0.05	0.05	
P-12065	336.00	2.00	85.00	Open	0.58	2267.96	2267.95	0.01	0.03	
P-12070	593.00	2.00	85.00	Open	1.21	2268.04	2267.96	0.08	0.14	
P-12075	666.00	2.00	85.00	Open	0.90	2268.01	2267.96	0.05	0.08	
P-12090	185.00	2.00	85.00	Open	0.57	2267.06	2267.05	0.01	0.03	
P-12095	471.00	2.00	85.00	Open	1.16	2267.11	2267.05	0.06	0.12	
P-12100	140.00	2.00	85.00	Open	-0.55	2265.15	2265.16	0.00	0.03	
P-12105	122.00	2.00	85.00	Open	-0.44	2265.15	2265.15	0.00	0.02	
P-12110	140.00	2.00	85.00	Open	0.71	2265.15	2265.14	0.01	0.05	
P-21000	2118.00	12.00	100.00	Open	360.91	2273.02	2271.69	1.32	0.62	
P-21010	2447.00	12.00	100.00	Open	0.00	2271.69	2271.69	0.00	0.00	
P-21020	2878.00	12.00	100.00	Open	360.91	2271.69	2269.90	1.80	0.62	
P-21030	2408.00	12.00	100.00	Open	360.91	2269.90	2268.40	1.50	0.62	
P-21040	3109.00	12.00	100.00	Open	360.91	2268.16	2266.22	1.94	0.62	
P-24000	384.00	10.00	100.00	Closed	0.00	2268.64	2271.69	0.00	0.00	
P-24010	2698.00	10.00	100.00	Open	0.00	2271.69	2271.69	0.00	0.00	
P-25000	332.00	8.00	100.00	Closed	0.00	2268.64	2271.69	0.00	0.00	
P-25010	157.00	10.00	100.00	Open	360.91	2268.40	2268.16	0.24	1.52	
P-30000	105.00	12.00	120.00	Open	331.40	2273.83	2273.79	0.04	0.38	
P10	111.00	20.00	120.00	Open	5428.42	2226.35	2225.73	0.62	5.60	
P11	87.00	20.00	120.00	Open	5428.42	2329.68	2329.20	0.49	5.60	
P12	10.00	8.00	120.00	Open	0.00	2224.25	2224.25	0.00	0.00	
P14	7.00	6.00	130.00	Open	0.00	2224.25	2224.25	0.00	0.00	
P16	11.00	8.00	120.00	Open	-2712.46	2224.25	2225.73	1.48	134.48	
P18	8.00	8.00	120.00	Open	2715.95	2225.73	2224.65	1.08	134.80	
P20	8.00	8.00	120.00	Open	2715.95	2337.46	2336.38	1.08	134.80	
P22	10.00	8.00	120.00	Open	2715.95	2336.38	2335.03	1.35	134.77	
P24	8.00	6.00	130.00	Open	0.00	2329.68	2329.68	0.00	0.00	
P28	11.00	8.00	120.00	Open	5428.42	2335.03	2329.68	5.35	486.02	
P30	8.00	8.00	120.00	Open	2712.46	2224.25	2223.18	1.08	134.46	
P32	8.00	8.00	120.00	Open	2712.46	2336.11	2335.03	1.08	134.46	

**TOWN OF BLACKSBURG WATER SYSTEM  
FIRST & MAIN PROJECT HYDRAULIC ANALYSIS  
MAY 4, 2007**

**Run 2 - Maximum Daily Demand plus 1000 gpm fire hydrant demand at MJ-11 and  
1000 gpm fire sprinkler demand at MJ-9 for a duration of 2 hours both nodes  
are located within the Proposed First & Main project site.**

**All Tanks at Normal Low Level & Triangle PS Pumps #2 & #3 On.**

**Extended Period Analysis - Reported after 2 of 2 hours  
Tank Report**

Node Label	Base Elevation (ft)	Minimum Elevation (ft)	Initial Elevation (ft)	Maximum Elevation (ft)	Diameter (ft)	Inflow (gpm)	Hydraulic Grade (ft)
Highland Park Tank-1	2237.00	2237.00	2275.00	2284.17	85.00	-426.29	2273.80
Highland Park Tank-2	2254.00	2254.00	2275.00	2284.00	75.00	-331.40	2273.83
Tank-Merrimac 1	2207.00	2207.00	2225.00	2242.00	100.00	1648.84	2228.86
Tank-Merrimac 2	2207.00	2207.00	2225.00	2242.00	70.00	928.28	2231.81
Tank-Neil Street	2252.00	2252.00	2275.00	2284.00	106.00	-1408.55	2272.32
SR-HGL from BCVPIWA 1	--	--	2240.00	--	--	-4272.65	2240.00
SR-HGL from BCVPIWA 2	--	--	2240.00	--	--	-3732.88	2240.00

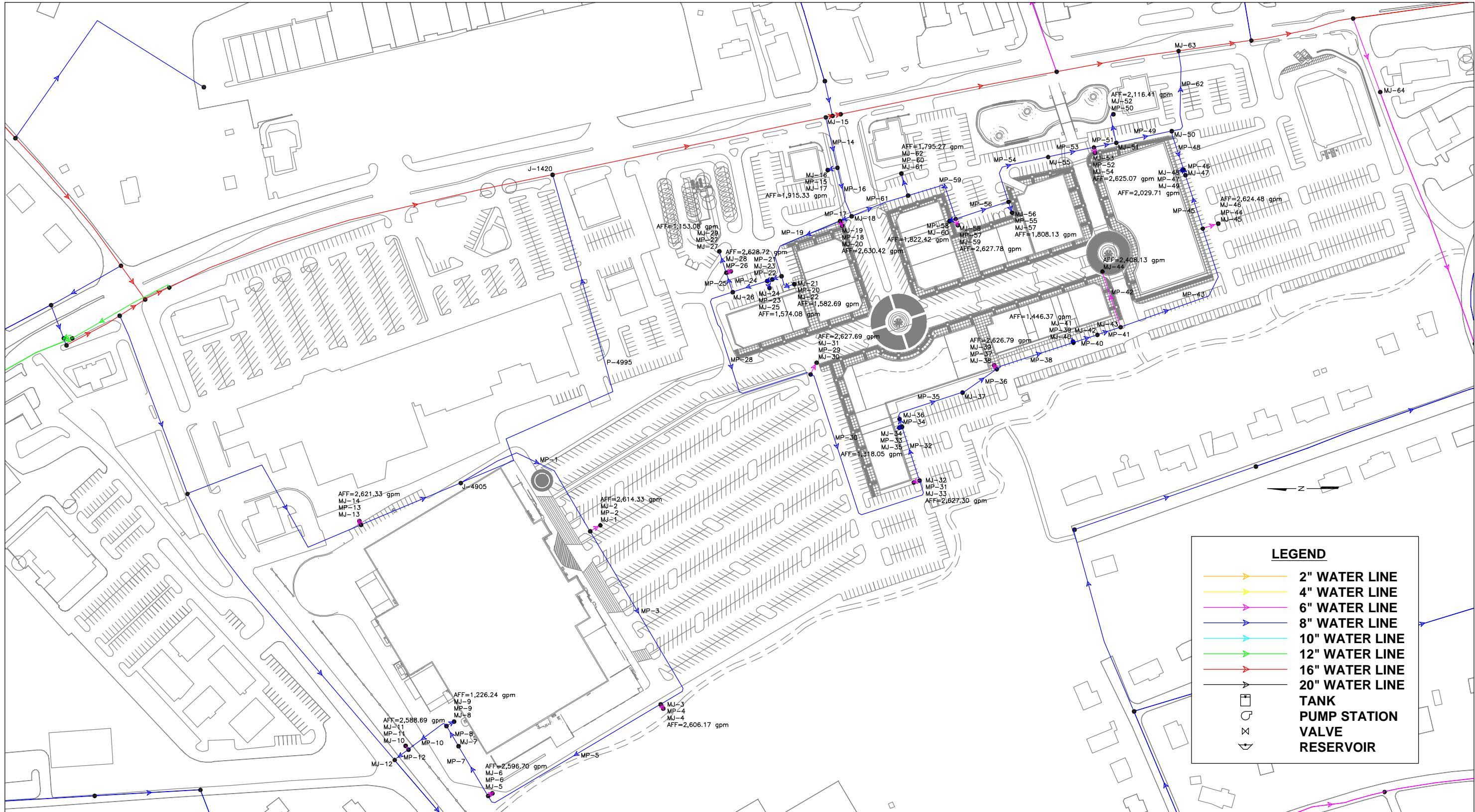
**Pump Report**

Pump Label	Elevation (ft)	Control Status	Intake Pump Grade (ft)	Discharge Pump Grade (ft)	Discharge (gpm)	Pump Head (ft)
PS-Bburg2	2,140.00	On	2,223.18	2,336.11	2,712.46	112.93
PS-Bburg3	2,140.00	On	2,224.65	2,337.46	2,715.95	112.80
PS-Triangle-Blacksburg Booster	2,140.00	Off	2,224.25	2,329.68	0.00	0.00

**APPENDIX E**  
**Proposed System Hydraulic Model Map**

# TOWN OF BLACKSBURG WATER SYSTEM

## FIRST AND MAIN PROJECT



**PROPOSED SYSTEM - HYDRAULIC MODEL**  
**MAY 4, 2007**